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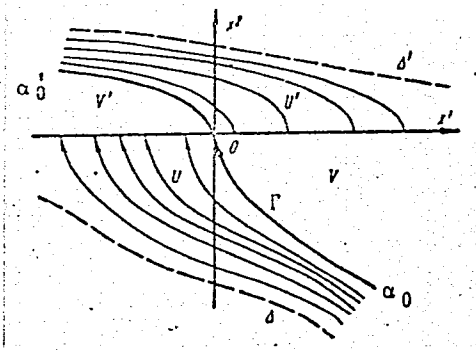

Fig. 1.

semitrajectory α_0', it is assumed that $u = -1$ and at points located under the Γ and on the semitrajectory α_0, it is assumed that $u = +1$. [LK]

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

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ROYTENBERG, Ye.Ya. (Moskva)

Problem of optimal control. Izv. AN SSSR. Tekh. kib. no.1:182-186 Ja-F '65. (MIRA 18:4)

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ANDREYEV, Viktor Fedorovich, kand. ekon. nauk; BANNYY, Nikolay Pavlovich, dots., kand. ekon. nauk; GORELIK, Iosif Grigor'yevich, dots., kand. ekon. nauk [deceased]; KATYSHEV, Viktor Leonidovich; OBLOMSKIY, Yakov Antonovich, dots., kand. ekon. nauk; PEKELIS, Isay Borisovich; PINEGIN, Ivan Ivanovich; PRIYMAK, Ivan Andreyevich, prof., doktor tekhn. nauk [deceased]; ROYTBURD, Lazar' Nisonovich, prof., doktor ekon. nauk; ROMANOVICH, Nikolay Dmitriyevich; BORDIN, M.M., retsenzent; BRYUKHANENKO, B.A., dots., kand. ekon. nauk, retsenzent; KHUTORSKAYA, Ye.S., red.izd-va; KARASEV, A.I., tekhn. red.

[Economics of ferrous metallurgy in the U.S.S.R.] Ekonomika chernoi metallurgii SSSR. [By] V.F.Andreev i dr. Pod red. L.N.Roitburda i N.P.Bannogo. Moskva, Metallurgizdat, 1963. 384 p. (MIRA 16:5)
(Iron industry) (Steel industry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

KUZNETSOV, Ye. V.; VALETDINOV, R. K.; ROYTBURD, TS. Ya.

Synthesis of aliphatic phosphorus containing dicarboxylic acids.
Zhur. ob. khim. 33 no.1:150-153 '63. (MIRA 16:1)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S. M. Kirova.

(Phosphorus acids)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

S/081/62/000/021/027/069
B117/B101

AUTHORS: Roytburd, Ts. Ya., Valetdinov, R. K.

TITLE: Synthesis of tetrahydroxymethylene phosphonium chloride and its reactions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 204, abstract 21Zh238 (In collection: Materialy 1-y Konferentsii molodykh nauchn. rabotn. g. Kazani, 1959, Sekts. khim. Kazan', 1960, 91 - 97)

TEXT: A method was developed for decomposing metal phosphides (Al, Cu, etc.) with water. The method consists in adding water to a liquid suspension (CH_3OH, alcohol, acetone, etc.) of AlP. Vigorous stirring during the reaction of PH_3 with CH_2O and HCl gives $(HOCH_2)_4PCl$ (I) which, together with $BaCO_3$, is converted into $(HOCH_2)_3PO$ (II) and, together with Na_2CO_3, into $(HOCH_2)_2POOH$ (III). Polycondensation with dibasic acids becomes increasingly difficult in the order III, II, I, resulting in the formation of fusible, transparent resins with obviously linear structure. These self-

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Synthesis of tetrahydroxymethylene...

extinguishing resins are soluble in organic solvents. 355 g of finely ground AlP and 350 ml of acetone are put into a reaction vessel, after which N_2 is bubbled through the apparatus for 10 min. 355 ml of water is added in drops while stirring. PH_3, together with 850 g of 35% CH_2O and 270 ml of 35% HCl, is filled into the reaction vessel with a stirrer until a specific gravity of 1.130 is reached. Finally, the solution is boiled down in vacuo at ≈80°C until the residue crystallizes (yield of I, 99.9% (in relation to CH_2O); m.p., 151°C (from alcohol)). 1 mole of I mixed with 0.5 mole of $BaCO_3$ in 0.2 l water is boiled for 6 hrs, the filtrate being evaporated in vacuo. II is extracted from the residue with 150 ml of absolute alcohol (yield of II, 80%; m.p., 44 - 45°C (from alcohol; very hygroscopic). 190.5 g of I and 106 g of $NaCO_3$ are boiled in 0.2 l of water for 8 hrs, whereupon the water is distilled off. Using 100 ml of concentrated HCl, the oily compound III is extracted from the residue, with a yield of 84.5%. 14 g of II and 1.5 g of phthalic anhydride are kept at 120°C for 4 hrs and, at the end of the reaction, the temperature is raised to 180°C. Thus a solid, transparent, vitreous, yellowish resin was

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ROYTBURD, Z.G., assistent

Effective axis of three-hinged arches in the Maillart system. (MIRA 16:2)
Trudy DIIT no.32:198-207 '61.
(Bridges, Arched)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

OLIFER, A.I., assistent; ROYTBURD, Z.G., assistent; SMETANIN, V.A., assistent

Experimental study of the effect of railroad cars on bridges. (MIRA 16:2)
Trudy DIIT no.32:24-31 '61.
(Railroad bridges--Testing)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ya.N. (Moskva)

Some problems in the theory of dynamic programming for nonlinear systems. Prikl. mat. i mekh. 26 no.3:418-430 My-Je '62.
(MIRA 16:5)

(Programming (Mathematics))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ya.N. (Moskva)

Reducing certain dynamic programming problems for nonlinear systems to transcendental equations. Prikl. mat. i mekh. 26 no.5:950-952 S-O '62. (MIRA 15:9)

(Programming (Mathematics))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ya.N. (Moskva)

Determining the position of a controllable nonlinear pulsed system in phase space. Prikl. mat. i mekh. 26 no.6:1136-1140 N-D '62. (MIRA 16:1)

(Automatic control) (Difference equations)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

Roytenburd, S. R.

"Experience in treating cases of endarteritis obliterans with the "Elektroson" apparatus designed in NIIÉKhAI." Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniya, No. 2, ~~1961~~ 1958, p. 66

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, A.V. (Kiyev)

E-systems of representations. Ukr. mat. zhur. 17 no.2:88-96 '65. (MIRA 18:5)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROZANOVA, L. S. Cand Biol Sci -- (diss) "Study of the hypotensive properties of iron under conditions of experimental renal hypertension (On the problem of the role of ferritin)." Mos, 1959. 16 pp (Mos Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov), 110 copies (KL, 43-59, 122)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ZARETSKIY, I.I.; MIKHAYLOVA, I.A. [deceased]; ROZANOVA, N.S.

Functional state of the kidneys in blood transfusion in dogs with a damaged thalamohypothalamic region. Probl.gemat.i perel.krovi 4 no.12:34-37 D '59. (MIRA 13:4)

1. Iz patofiziologicheskoy laboratorii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.

(BLOOD TRANSFUSION exper.)
(KIDNEYS physiol.)
(THALAMUS physiol.)
(HYPOTHALAMUS physiol.)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

GINDIN, L.M.; KOPP, I.F.; ROZEN, A.M.; BOBIKOV, P.I.; KOUBA, E.F.; TER-OGANESOV, N.A.

Extraction equilibria for cobalt, nickel, and certain metals. Zhur.neorg.khim. 5 no.1:149-159 Ja '60. (MIRA 13:5)

1. Noril'skiy gornometallurgicheskiy kombinat im. A.P. Zavenyagina, Opytno-issledovatel'skiy tsekh.
(Extraction (Chemistry)) (Metals)

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AUTHOR: Roytenberg, Ya. N. (Moscow)

TITLE: Setting a Gyrocompass to the Meridian During the Starting of Gyroscopic Rotors

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol 24, Nr 1, pp 88-92 (USSR)

ABSTRACT: In a previous article, (Priklad. matem. i mekh., 1959, Nr. 5), the author showed that by suitably imposed generalized external forces applied to the gyrocompass, the return to the meridian can be effected during some preassigned interval of time. Moreover, it is expedient to begin the return to the meridian at the time the rotors of the gyro are started. In this paper, the resultant gyroscopic moment is assumed to be a known function of time, $H = H(t)$. The analysis is limited to precession and starts from the equations for the three generalized coordinates α, β, θ which are obtained by dropping the terms involving $\dot{\alpha}$ and β in the second

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turn of the gyrocompass in azimuth, β is the angle of the northern diameter of the gyrosphere above the horizon plane, and θ is the angle between the liquid surface of the hydraulic damper and the gyrosphere equatorial plane. The generalized force to be applied (and determined) is the torque $Q(t)$, which is a moment relative to the eastern diameter of the gyrosphere, and appears as a forcing term in the equation for α. A solution of the system is written down in terms of a fundamental matrix solution $\theta(t)$ of the homogeneous system and general initial conditions. This in turn is used to obtain conditions where an equilibrium state is achieved at some time $t = T$. This leads to the integral equation for $Q(t)$:

$$\int_0^T N_i(T, \tau) \frac{Q(\tau)}{H(\tau)} d\tau = R_i(T) \qquad (i = 1, 2, 3) \qquad (2.5)$$

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$$R_j(T) = \sum_{k=1}^{3} N_{jk}(T, 0)\, z_k(0) - H \sin\varphi \int_0^T N_{j1}(T, \tau)\, d\tau = z_j^* \qquad (j = 1, 2, 3) \qquad (2.4)$$

Here, $N(t, \tau)$ is the matrix $\Theta(t)\,\Theta^{-1}(\tau)$, z is the vector (α, β, θ), φ is the latitude of observation, and z^* corresponds to the equilibrium state (actually stationary motion). This integral equation is solved approximately by dividing the interval (0,T) into three equal subinvtervals, in each of which it is assumed that Q(t) is constant. The integral equation is thus reduced to a system of three linear algebraic equations whose solution is given in determinant form. This solution contains the functions $N_{j1}(T, \tau)$ and $N_{j\xi}(T,0)$ $(j, \xi = 1, 2, 3)$ which are assumed to be known functions and which can be determined as the solution of the system of equations adjoining the starting system

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for z. One numerical example is discussed for which T = 1,800 sec. For given initial deviations, i.e., z(0), the value Q(t) on the three intervals is determined. There is one table; and 2 Soviet references.

SUBMITTED: November 10, 1959

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ye.

Automatization of sausage production. Mias. ind. SSSR 29 no.5:48 '58. (MIRA 11:10)

1. Glavnyy inzhener Karagandinskogo myasokombinata.
(Sausages)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ya.N. (Moscow)

Method of setting up Liapunov's functions for linear systems with variable coefficients. Prikl. mat. i mekh. 22 no.2:167-172 Mr-Ap '58. (MIRA 11:7)

(Differential equations, Linear) (Stability)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

LIYK, Rol'f Vladimirovich; ROYTENBERG, Yefim Mikhaylovich; EYDEL'MAN, L.Ya., otv.red.; KIRILLOV, L.M., red.; SHEFER, G.I., tekhn.red.

[ATS-54 automatic ten-step telephone exchange] Avtomaticheskaia telefonnaia stantsiia dekadno-shagovoi sistemy ATS-54. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1959. 112 p. (MIRA 13:4)

(Telephone, Automatic)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

6 (7) SOV/111-59-10-9/23

AUTHOR: Roytenberg, Ye.M., Engineer, Chief
Goryachev, V.A., Senior Engineer

TITLE: RSL Assemblies for Two-conductor Connecting Links of Great Length

PERIODICAL: Vestnik svyazi, 1959, Nr 10, pp 14-15 (USSR)

ABSTRACT: This article is concerned with the expediency of using RSL assemblies for two conductor connecting links of great length on large city telephone networks (GTS); these RSL units are presently in serial production. They were developed by the Nauchno-issledovatel'skiy institut gorodskoy i sel'skoy telefonnoy svyazi ministerstva svyazi SSSR (Scientific-Research Institute for Municipal and Rural Telephone Communications of the Ministry of Communications of the USSR) and the konstruktorskoye byuro zavoda "Krasnaya Zarya" (Design Office of the "Krasnaya Zarya" Works). The authors outline and discuss the usual criteria for selecting cable conductor diameter on small networks, taking into account the attenuation and ohmic resistance norms guaranteeing good performance. However,

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RSL Assemblies for Two-conductor Connecting Links of Great Length

in dealing with larger networks with a greater number of long connecting links these criteria are unacceptable; although attenuation norms can be satisfied on small diameter conductors, ohmic resistance norms can only be met by increasing lead diameter, and this in turn leads to exceeding the norm for capacitance. Solution of this problem is possible with the RSL units, and it is in connection with the planning of large municipal telephone networks that production of the RSL units becomes important, state the authors. These units also provide for correction of dialing impulses and relay of of intercommunications signals, which, it is stated, practically speaking doubles the operating range limits of ATS equipment. These correction and relay processes take place in the input section of the assembly, containing nine relays; the less complicated output section contains three relays. The input section can also be used independently for relaying inter-communication signals on three conductor connecting links.

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SOV/111-59-10-9/23

RSL Assemblies for Two-conductor Connecting Links of Great Length

ASSOCIATION: Laboratoriya nauchno-issledovatel'skogo instituta telefonnoy svyazi (NIITS) (Laboratory of the Scientific-Research Institute of Telephone Communications)

Card 3/3

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ya.N. (Moskva)

Motion of gyroscope instruments under the effect of accidental forces. Prikl.mat.i mekh. 24 no.3:463-472 My-Je'60.
(MIRA 13:10)

(Gyroscope)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

Roytenberg, Ye. M.

STATIONS & COMMUNICATION SYSTEMS

"Fundamental Operational-Technical Data on the Modernized ATS-47 Equipment," by Ye. M. Roytenberg, Engineer, Chief of the Laboratory of the Institute of Scientific Research for Telephone Communication. Vestnik Svyazi, No 7, July 1957, pp 3-5.

Description of the improvements made to the ATS-47 system to increase the range, to permit automatic interurban dialing, to compute the telephone traffic load, to improve the ring-off operation, and to make general improvements to all types of the equipment.

Card 1/1

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Ye.M., inzhener.

Basic operating and technical data for the improved automatic telephone equipment (ATS-47). Vest. sviazi 17 no.7:3-5 Jl '57. (MLRA 10:8)

1. Nachal'nik laboratorii Nauchno-issledovatel'skogo instituta telefonnoy svyazi.

(Telephone, Automatic)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTENBERG, Z.M.

Utilizing an anti-run mechanism for producing patterned hosiery products. Leg.prom. 14 no.11:42-47 N '54. (MLRA 7:12)
(Hosiery)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

RAKHLIS, I., starshiy inzhener mekhanizatsii; ROYTENBURD, A., inzhener mekhanizatsii (Odesskiy port).

Overall mechanization of unloading soybeans from tanker vessels. Mor.flot 16 no.3:6-10 Mr '56. (MLRA 9:7)
(Soybeans--Transportation) (Cargo handling)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, A.V.

Representations of cyclic groups of the fourth order by integral matrices. Vest. LGU 15 no.19:65-74 '60. (MIRA 13:9)
(Matrices)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, A.V. (Kiyev)

Category of representations. Ukr. mat. zhur. 15 no.4:448-452 '63. (MIRA 17:4)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

NAZAROVA, L.A.; ROYTER, A.V.

Integral representations of a symmetrical third-order group.
Ukr. mat. zhur. 14 no.3:271-288 '62. (MIRA 15:9)
(Groups, Theory of)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, A.V.

Categories with divisibility and integral representations. Dokl. AN SSSR 153 no.1:46-48 N '63. (MIRA 17:1)

1. Institut matematiki AN UkrSSR. Predstavleno akademikom P.S. Novikovym.

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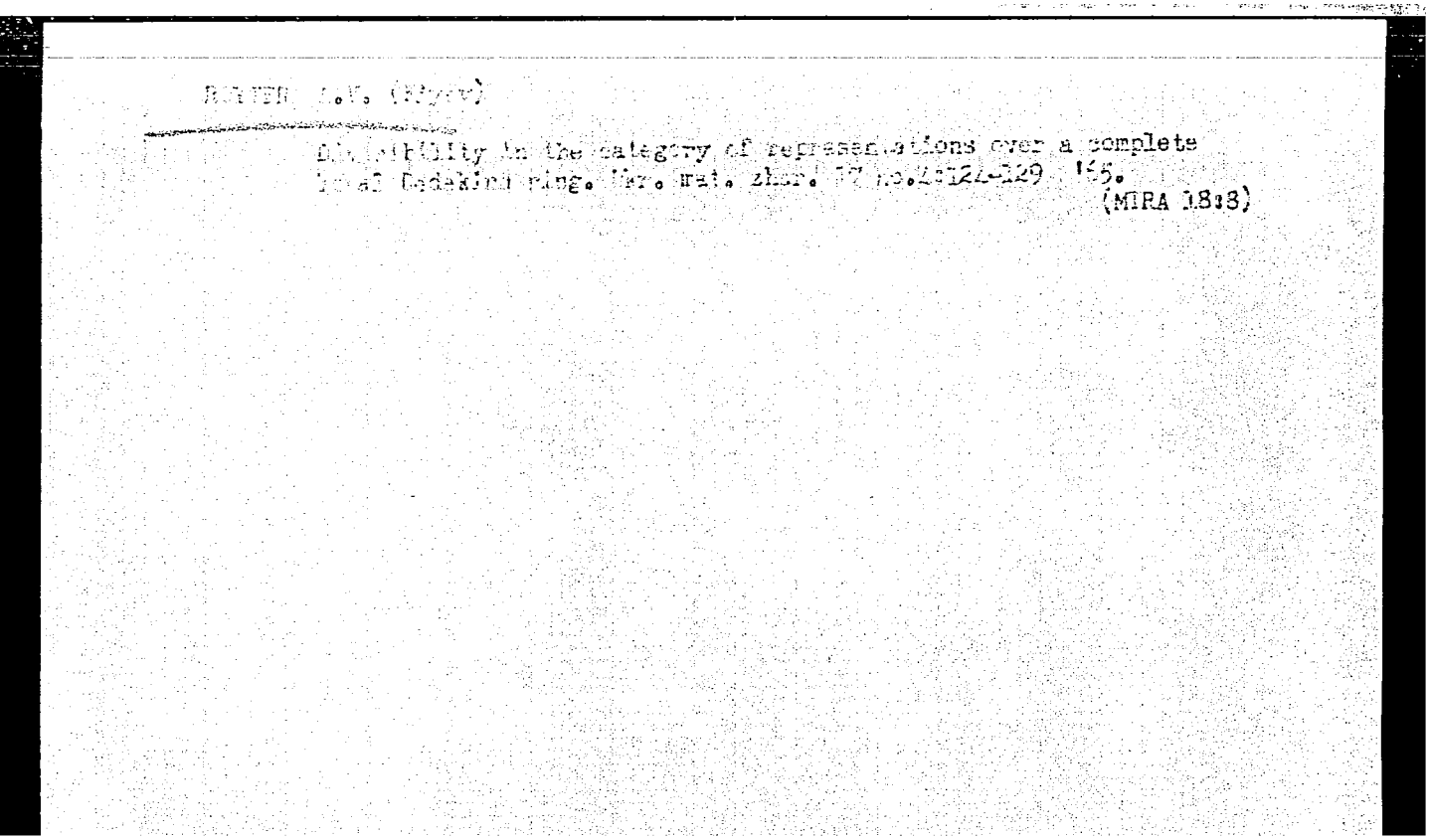

[illegible] A.A. (Kiyev)

[illegible]bility in the category of representations over a complete local Dedekind ring. Ukr. mat. zhur. 17 no.4:124-129 '65.
(MIRA 18:8)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

84909

S/043/60/019/004/012/015XX
C 111/ C 333

16,2000

AUTHOR: Royter, A. V.

TITLE: On the Representations of a Cyclic Group of Order Four by Integral Matrices

PERIODICAL: Vestnik Leningradskogo universiteta, Seriya matematiki, mekhaniki i astronomii, 1960, Vol. 19, No. 4, pp. 65-74

TEXT: A representation of the group G by integer matrices is defined to be a homomorphism of G into the automorphy group of a free abelian group. Two representations $\varphi : G \to \{A_i\}$ and $\psi : G \to \{B_i\}$ are equivalent, if $A_i = C^{-1} B_i C$, where C is an integer matrix, the determinant of which is $= 1$ in absolute value.

Diederichsen (Ref. 1) considered the representations of the cyclic group of fourth order and showed that irreducible representations of this group exist of arbitrary power. The author proves this result to be wrong: there exist only 8 irreducible representations and their power is ≤ 4.

Lemma 1: Let R be a free abelian group, B an endomorphism of R, [illegible] of B. Every basis of S can be completed to a basis of R.

[illegible] $\varphi(x)$, $g(x)$ and $f(x)$ are

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C 111/ C 333

On the Representations of a Cyclic Group of Order Four by Integral Matrices

integer polynomials in x. Let A be an integer matrix such that $\varphi(A) = 0$ (A effects in the grid R); let S be the kernel of the endomorphism g(A). According to lemma 1 there exists a subgrid T so that $S \oplus T = R$. Let $\bar{A}$ be defined as the endomorphism of A which is bounded on T, i. e. from $A(t) = t_1 + s_1$, where $t \in T$, $t_1 \in T$, $s_1 \in S$, it is assumed to follow $\bar{A}(t) = t_1$. Then

1.) the subgrid S is admissible relative to $A(s \in S \rightarrow A(s) \in S)$;

2.) $\bar{A}$ satisfies the equation $f(\bar{A}) = 0$. Theorem: If A is an integer matrix, $A^4 = E$, then there exists an integer unimodular matrix C such that $C^{-1}AC$ is decomposed into boxes of the following nine types:

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

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C 111/ C 333

On the Representations of a Cyclic Group of Order Four by Integral Matrices

$$\begin{pmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{pmatrix}, \quad \begin{pmatrix} 1 & 2 & 0 & 0 \\ 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{pmatrix}, \quad \begin{pmatrix} 1 & 1 & 0 & 0 \\ 0 & 0 & -1 & 1 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 \\ 1 & 0 & 0 \\ 0 & 0 & -1 \end{pmatrix}, \quad \begin{pmatrix} 1 & 1 & 0 \\ 0 & 0 & -1 \\ 0 & 1 & 0 \end{pmatrix}, \quad \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}, \quad \begin{pmatrix} 1 & 1 \\ 0 & -1 \end{pmatrix}, \quad (-1)$$

There are 2 non-Soviet references: 1 American and 1 German.

Card 2/2

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

PAUTOV, N.; ROYTER, G.

At the recommendation of a works council. Sov. profsoiuzy 7 no.17: 41-42 S '59. (MIRA 12:11)

1.Predsedatel' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya na Odesskom zavode imeni Yanvarskogo vosstaniya (for Pautov). 2.Sekretar' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya na Odesskom zavode imeni Yanvarskogo vosstaniya (for Royter).

(Odessa--Cranes, derricks, etc.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M., doktor tekhn. nauk; KOVALENKO, A.Ya., inzh.

Effect of the moisture of rye leaven on the intensity of biochemical processes and bread quality. Pishch. prom. no.1:47-55 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.

GRITSYUK, I.G.; ROYTER, I.M.; FERTMAN, G.I., spetsredaktor.

[Technology of liqueur and vodka production] Tekhnologiia likero-vodochnogo proizvodstva. Moskva, Gos. izd-vo Ministerstva legkoi i pishchevoi promyshl., 1953. 310 p. (MLRA 7:7)
(Liqueur) (Vodka)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.

USSR/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6468

Author: Royter, I. M.

Institution: Kiev Technological Institute of the Food Industry

Title: Inappropriateness of Heating the Paste for Liquid Yeast by Blowing with Steam

Original Publication: Tr. Kievsk. tekhnol. in-ta pishch. prom-sti, 1955, 15, 125-131

Abstract: Investigation of the effect of blowing-in steam on the enzymes and other physiologically active substances of flour during preparation of a water-flour paste for liquid yeast. The work was conducted under laboratory and plant conditions. The pastes were prepared with 2nd grade wheat flour and mixtures of 70% 2nd grade wheat flour and 30% rye flour of size grade. Pastes prepared by mixing the flour with water heated to 75-80° were used as controls. The paste was cooled to 50° and inoculated with 15-17% starter after which it was held

Card 1/3

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

USSR/Chemical Technology. Chemical Products and Their Application -- Fermentation industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6468

Abstract: at 50-54° for 16 hours. In a number of experiments the inoculated paste was used to produce yeast, utilizing the proportions paste: water:liquid yeast of 1:1:2. Duration of yeast fermentation was 3-4 hours at 30°. In the course of the work a study was made of dynamics of accumulation of sugar and lactic acid and of changes in quality of liquid yeast depending on rate of heating of the paste, temperature of the paste, flour to water ratio in the paste, and length of time that elapsed before the paste was inoculated. In the inoculated paste a determination was made of initial and final acidity, content of reducing sugars according to Bertrand, computed as maltose, and of water soluble dry substances, by means of a refractometer. In the final yeast a determination was made of the number of yeast cells in million/ml. Under plant conditions there were determined, in addition, the leavening action of yeast, by the "ball" method, within 1 minute, the proliferation factor of the yeast and acidity increase in degrees. In the case when the paste was prepared by blowing-in steam the best results were obtained on heating the paste for 5 minutes. Optimal temperature of paste preparation is 65-70° with a flour:water

Card 2/3

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ROYTER, I.M.

ROYTER, I.M.

Mechanical leavening of dough. Khleb. i kond. prom. 1 no.9:5-9 S '57.
(MIRA 10:11)
1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti imeni A.I. Mikoyana.
(Bakers and bakeries--Equipment and supplies)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; BASHIROVA, R.S.

Use of table salt in the preparation of liquid yeast. Khleb. i kond. prom. 1 no.12:11-14 D '57. (MIRA 11:1)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti imeni A.I. Mikoyana.

(Yeast) (Baking)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

STABNIKOV, V.N.;ROYTER, I.M.

"Trudy" of the Kiev branch of the All-Union Scientific-Research Institute of the Alcohol Industry. Spirt. prom. 23 no.2:41-43 '57.
(Alcohol) (MLRA 10:4)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, Isaak Menashevich; MIKHELEV, Abram Aronovich; KIROVA, Kira Aleksandrovna; KASPERSKAYA, Ye., red.; BESPYATOV, R., tekhn.red.

[Bakery technician's manual] Kratkii spravochnik tekhnologa khlebopekarnogo proizvodstva. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1958. 504 p. (MIRA 11:2)
(Bakers and bakeries)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M., kand. tekhn. nauk; REN'KAS, N.M., inzh.; ERZINA, N.I., kand. tekhn. nauk; KOVALENKO, A.Ya., inzh.

Fermentation activity and propagation of yeast during dough preparation from wheat flour. Pishch. prom. no.2:69-76 '65. (MIRA 18:11)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

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L 23396-66 EWP(1)/EWP(k)/EWT(m)/T/EWP(t) IJP(c) RM/DJ/JD

ACC NR: AP6000635 SOURCE CODE: UR/0407/65/000/001/0020/0036

AUTHOR: Merkur'yev, A. N. (Moscow); Pechuro, N. S. (Moscow); Royter, L. A. (Moscow); Gol'din, V. I. (Moscow); Pesin, O. Yu. (Moscow)

ORG: none

TITLE: Media for precision electroerosion machining of metals

SOURCE: Elektronnaya obrabotka materialov, no. 1, 1965, 20-36

TOPIC TAGS: electroerosion machining, metal machining

ABSTRACT: An experimental investigation of the effect of various interelectrode media on the process of electroerosion machining (EEM) of steels is described. Paraffin, naphthene, and aromatic hydrocarbons, mono-, di-, and tri-atomic alcohols, polyethyl-siloxanes (No. 3 and No. 5 silicones), kerosine, Estonian shale resin, and green soap were tested. It was found that the electrode erosion and wear depend on the medium and the power-supply source used. The best results were obtained with No. 3 silicone and tetralin used with longer pulses; the specific erosion [illegible] the discharge energy which enhanced the power efficiency of the

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ROYTER, I.M., doktor tekhn. nauk; KOVALENKO, A.Ya., inzh.; LYAKH, Ye.V., inzh.

Effect of salt in rye leaven on the intensity of biochemical processes and quality of bread. Pishch. prom. no.1:55-64 '65. (MIRA 18:11)

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BASHIROVA, R.S.; BERZINA, N.I.; ROYTER, I.M.

Some data on the zymase and maltase activity in baker's yeasts. Trudy KTIPP no.27:20-23 '63. (MIRA 17:5)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

FUCHKO A, Lyubov' Ivanovna; SHKVARKINA, T.I., kand. tekhn. nauk, retsenzent; ROYTER, I.M., kand. tekhn. nauk, retsenzent; AUERMAN, L.Ya., prof., red.; PRITYKINA, L.A., red.

[Practical laboratory work on the technology of bread baking] Laboratornyi praktikum po tekhnologii khlebopecheniia. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 145 p. (MIRA 17:7)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, .M., KOVALENKO, A.Ya.; BERZINA, N.I.; REN'KAS, N.M.

Preparation of sour dough, leaven and liquid yeast in case of long breaks in work. Trudy KTIPP no.27:23-31 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; KOVALENKO, A.Ya.; LYASKOVSKIY, K.V.; EPSHTEYN, M.M.; FROLOVA, V.K.

Results of the introduction of a new technological flow sheet for the making of Kaunas bread with liquid intermediate products. Trudy KTIPP no.27:3-12 '63. (MIRA 17:5)

1. Sotrudniki Vil'nyusskogo khlebo-makaronnogo kombinata (for Lyaskovskiy, Epshteyn, Frolova).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.

Effect of sodium chloride on the activity of wheat amylases. Izv. vys. ucheb. zav.; pishch. tekh. no.4:42-46 '63.

Investigating salt concentration in the liquid phase of wheat dough. 47-52 . (MIRA 16:11)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.

Effect of sodium chloride on the activity of wheat proteases in water-flour suspensions. Izv. vys. ucheb. zav.; pishch. tekh. no.6:40-45 '63. (MIRA 17:3)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, Isaak Menashevich, kand. tekhn. nauk; DENISENKO, L.P., red.; SHAFETA, S.M., tekhn. red.

[Bread making] Khlebopekarnoe proizvodstvo; tekhnologicheskii spravochnik. Izd.3., perer. i dop. Kiev, Gostekhizdat USSR, 1963. 489 p. (MIRA 16:11)
(Bread)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

BASHIROVA, R.S.; ROYTER, I.M.

Characteristics of some yeast species from distilleries manufacturing bakers' yeast. Izv.vys.ucheb.zav.; pishch.tekh. no.1:72-76 '63. (MIRA 16:3)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva i kafedra biokhimii i mikrobiologii.

(Yeast)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

BERZINA, N.I.; KOVALENKO, A.Ya.; ROYTER, I.M.

Biochemical changes of the protein-proteinase complex in wheat sponge and dough. Izv.vys.ucheb.zav.; pishch.tekh. 2:49-54 '62. (MIRA 15:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.
(Proteins) (Dough)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; KOVALENKO, A.Ya.; BERZINA, N.I.; REN'KAS, N.M.

Investigation of the method for preparing the wheat dough on liquid leavens. Izv. vys. ucheb. zav.; pishch.tekh. no.2:27-34 '60. (MIRA 14:7)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.
(Dough)
(Yeast)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; KOVALENKO, A.Ya.; REN'KAS, N.M.

Investigation of the method of preparing wheat dough with leaven containing table salt. Izv. vys. ucheb. zav.;pishch. tekh. no.3:56-61 '60. (MIRA 14:8)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, Kafedra khlebopekarnogo proizvodstva.
(Dough)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.

Role of the physical condition of carbon dioxide and air in the formation of the structure of bread crumbs. Izv. vys. ucheb. zav.; pishch. tekh. no.4:79-84 '61. (MIRA 14:8)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.
(Bread) (Carbon dioxide)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; RUDENKO-GRITSYUK, G.Ye.

Nomogram for determining the heat transfer coefficient during the condensation of water-alcohol vapors. Trudy KTIPP no.21:85-89 '59. (MIRA 14:1)

(Alcohol) (Water vapor)
(Heat--Transmission)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; BASHIROVA, R.S.; REN'KAS, N.M.

Changes in the properties of liquid yeasts during their prolonged cultivation in the presence of sodium chloride. Trudy KTIPP no.21: 91-98 '59. (MIRA 14:1)

(Yeast)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

BERZINA, N.I.; ROYTER, I.M.

Effect of sodium chloride on the physical properties of gluten and dough from wheat flour. Trudy KTIPP no.22:76-83 '60. (MIRA 14:3)
(Dough) (Gluten) (Salt)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

KOVALENKO, A.Ya.; BERZINA, N.I.; ROYTER, I.M.

Effect of rye flour used in the preparation of liquid yeasts on the quality of wheat bread. Trudy KTIPP no.22:84-90 '60. (MIRA 14:3)

(Bread) (Yeast) (Rye)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; BASHIROVA, R.S.; REN'KAS, N.M.

Comparative activity of the yeast strains "Krasnodarskaya" and "Krasnodarskaya salty yeast" used in the production of liquid yeasts. Mikrobiologiia 29 no. 4:595-599 Jl-Ag '60.
(MIRA 13:10)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(YEAST)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

BERZINA, N.I.; ROYTER, I.M.

Effect of table salt concentration in the substance on the fermentation activity of yeast. Izv.vys.ucheb.zav.; pishch.tekh. no.5:51-56 '59. (MIRA 13:4)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.
(Yeast)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BASHIROVA, R.S.

Use of lactic bacteria from the "E-1" yeast strain for the preparation of liquid yeasts by the continuous system. Izv.vys. ucheb.zav.; pishch.tekh. no.6:52-54 '59. (MIRA 13:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti. Kafedra khlebopekarnogo proizvodstva.
(Yeast)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; KOVALENKO, A.Ye.

Changes in gluten during the preparation of wheat dough. Izv. vys.ucheb.zav.; pishch.tekh. no.6:55-60 '59.
(MIRA 13:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti. Kafedra khlebopekarnogo proizvodstva.
(Dough--Analysis) (Gluten)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BASHIROVA, R.S.

Proteolytic activity of the "E-1" a new strain of thermophilic lactic acid bacteria. Izv.vys.ucheb.zav.; pishch.tekh. no.1: 56-59 '60. (MIRA 13:6)

1. Kafedra tekhnologii khlebopekarnogo proizvodstva Leningradskogo tekhnologicheskogo instituta pishchevoy promyshlennosti.
(Protein) (Lactic acid bacteria)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; BERZINA, N.I.; BASHIROVA, R.S.; v proizvodstvennykh ispytaniyakh uchastvovali: KOVALENKO, A.Ya., assistent; MEDOVAYA, E.I., mikrobiolog

Effect of table salt in the preparation of liquid yeasts. Trudy KTIPP no.17:57-68 '57. (MIRA 13:1)

1. Kiyevskiy khlebozavod No.5 (for Medovaya).
(Yeast) (Baking)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

BEREZINA, N.I.; ROYTER, I.M.; BASHIROVA, R.S.

Fermenting of dough prepared with liquid yeast and table salt.
Trudy KTIPP no.17:75-80 '57. (MIRA 13:1)
(Yeast) (Baking)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.

Aeration of dough with carbon dioxide under pressure. Trudy KTIPP no.19:123-130 '58. (MIRA 12:12)
(Dough)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

ROYTER, I.M.; KOVALENKO, A.Ya.; BERZINA, N.I.; GITERMAN, F.L.

Investigating the technology of preparing dough containing the scalded flour leavened with thermophile lactic acid bacteria. Izv.vys.ucheb.zav.; pishch. tekh. no.6:58-65 '61. (MIRA 15:2)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra khlebopekarnogo proizvodstva.
(Dough)(Lactic acid bacteria)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001445520010-9

L 42065-65 EWT(m)/EWG(m) RWH/RM

ACCESSION NR: AP5010917 UR/0286/65/000/007/0103/0103

AUTHORS: Bakhmann, R.; Krams, U.; Royter, Kh.; Shvakhula, G.; Varneke, D.; Velend, V.; Vol'f, F.

TITLE: A method for obtaining anionites. Class 39, No. 169785

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 103

TOPIC TAGS: anionite, monomer, polymer, vinyl, copolymerization, copolymer solubility, alkyl, organic solvent, amination

ABSTRACT: This Author Certificate presents a method for obtaining anionites by copolymerization of one or several monovinyl aromatic substances with one or several bonding agents. This is followed by introducing a haloid alkyl and by amination during which copolymerization is conducted in the medium of organic solvents in which monomers are soluble, while polymers are practically insoluble. To increase the thermal stability of the strong sorbents, the solvents are added in the amounts of 0.25-10% by weight of the monomers.

ASSOCIATION: none

Card 1/2

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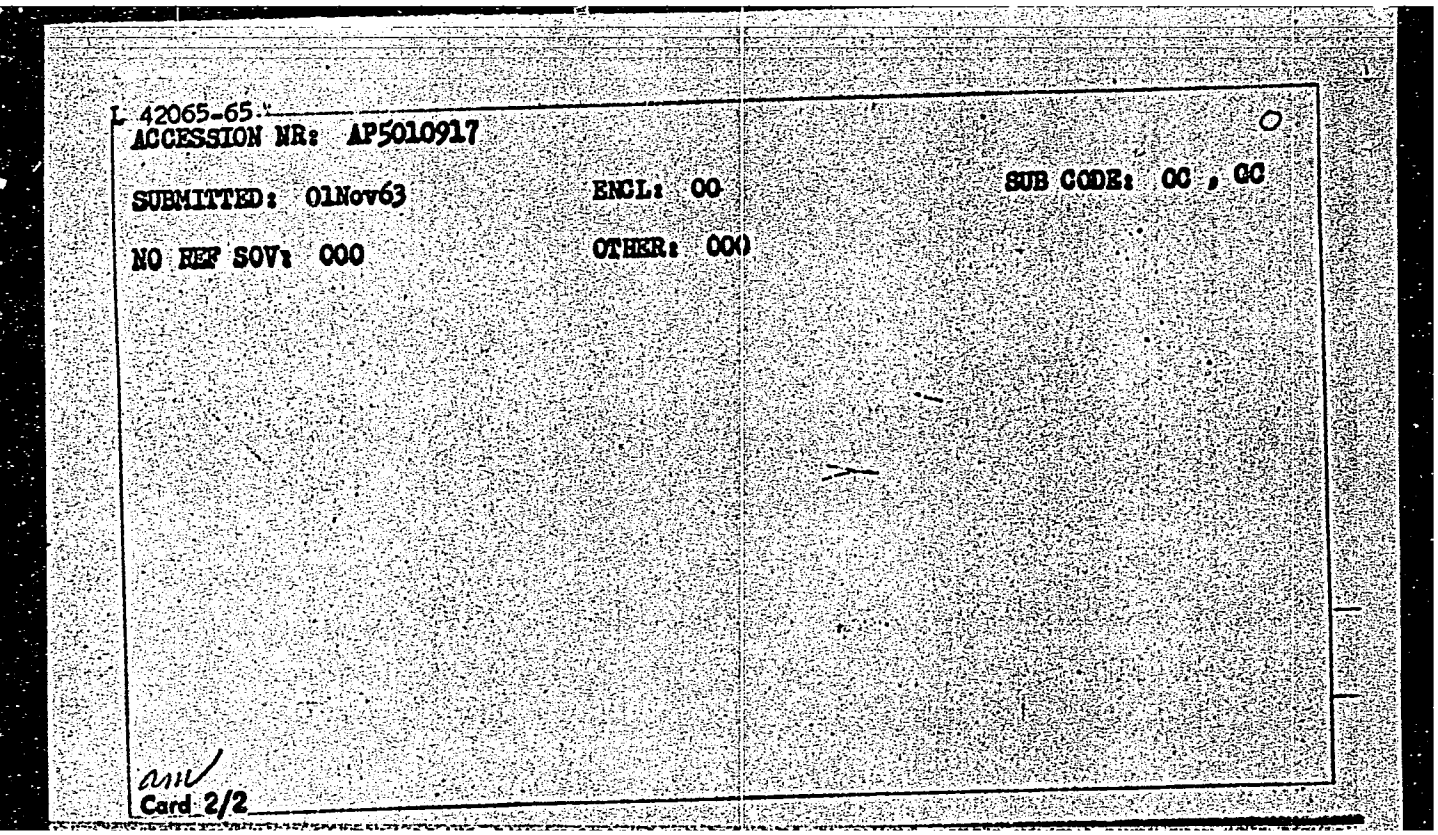

L 42065-65
ACCESSION NR: AP5010917

SUBMITTED: 01Nov63 ENCL: 00 SUB CODE: OC , GC

NO REF SOV: 000 OTHER: 000

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L 42064-65 EWT(m)/EWG(m) RWH/RM

ACCESSION NR: AP5010918 UR/0286/65/000/007/0103/0103

AUTHORS: Bakhmann, R.; Kraus, U.; Royter, Kh.; Shvakmula, G.; Varneke, D.; Velend, V.; Vol'f, F.

TITLE: A method for obtaining sulfocationites. Class 39, No. 169786

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 103

TOPIC TAGS: sulfocationite, polymer, monomer, sulfonation, vinyl, epoxy, initiator, organic solvent

ABSTRACT: This Author Certificate presents a method for obtaining sulfocationites by sulfonating a copolymer of one or several monovinyl aromatic compounds with one or several bonding agents containing vinyl or epoxy groups. The copolymerization is conducted in the presence of initiators in the medium of an organic solvent. To obtain mechanically strong sorbents, the organic solvent is added during polymerization in the amount of 0.25-5% by weight of the monomers.

ASSOCIATION: none

SUBMITTED: 01Nov63 ENCL: 00 SUB CODE: OO, GC

NO REF SOV: 000 OTHER: 000

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ROYTER, L., inzh.; EPSHTEYN, I., inzh.

Industrial construction in Noril'sk. Na stroi. Ros. 3 no.10: 16-17 O '62. (MIRA 16:6)

(Noril'sk—Industrial plants)

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YASTRZHEMBSKAYA, O.V.; ANDREYEVA, V.S.; NENICH, V.N.; ROYTER, M.K.; DRINFEL'D, P.Ye.; BILYM, L.M.

Starting up and operating experience of the indene-benzofuran resin section of the Kadiyevka Coke Chemical Plant. Koks i khim. no.10:40-44 '58. (MIRA 11:11)

1. Kadiyevskiy koksokhimicheskiy zavod.
(Kadiyevka--Resins, Synthetic) (Indene) (Benzofuran)

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SOV/68-58-10-13/25

AUTHORS: Yastrzhem'skaya, O.V., Andreyeva, V.S., Nenich, V.N., Royter, M.K., Drinfel'd, P.Ye., and Bilym, L.M.

TITLE: From Experience of Putting the Indene-coumarone Resin Plant on the Kadiyevka Coking Works into Operation (Opyt puska i raboty tsekha inden-kumaronovykh smol na Kadiyevskom koksokhimicheskom zavode)

PERIODICAL: Koks i Khimiya, 1958, Nr 10, pp 40 - 44 (USSR)

ABSTRACT: The plant was put into operation in 1955. The scheme of the operation of the plant as designed is shown in Figure 1 and changes introduced are shown in Figures 2 and 3. Aluminium chloride is used as a catalyst in a proportion of 0.35% of the raw material. The polymerisation process begins at 20 - 30 °C and is finished at 110 °C. The main difficulties were encountered in the distillation plant due to the incorrect design of the evaporators and due to an excessive corrosion of the condenser. All resin pipe-lines were found to be too long and complicated. Cooling drums for resin were insufficient. The initial losses of hydrocarbons amounted to 18-20% and were reduced (by unspecified methods) to

Card 1/2

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From Experience of Putting the Indene-coumarone Resin Plant on the Kadiyevka Coking Works into Operation

6-8%. Softening temperature of the resin produced 100 - 110 °C. It is pointed out that in order to decrease corrosion, an enamelled distillation apparatus and a reactor for the preparation of aluminium chloride complex should be introduced. There are 3 figures.

ASSOCIATIONS: UKhIN and Kadiyevskiy koksokhimicheskiy zavod (Kadiyevka Coking Works)

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ROYTMAN, M.P. (Moskva)

Report form on morbidity with temporary disability. Sov. zdrav. 19 no.3:31-35 '60. (MIRA 14:6)
(MEDICAL RECORDS)

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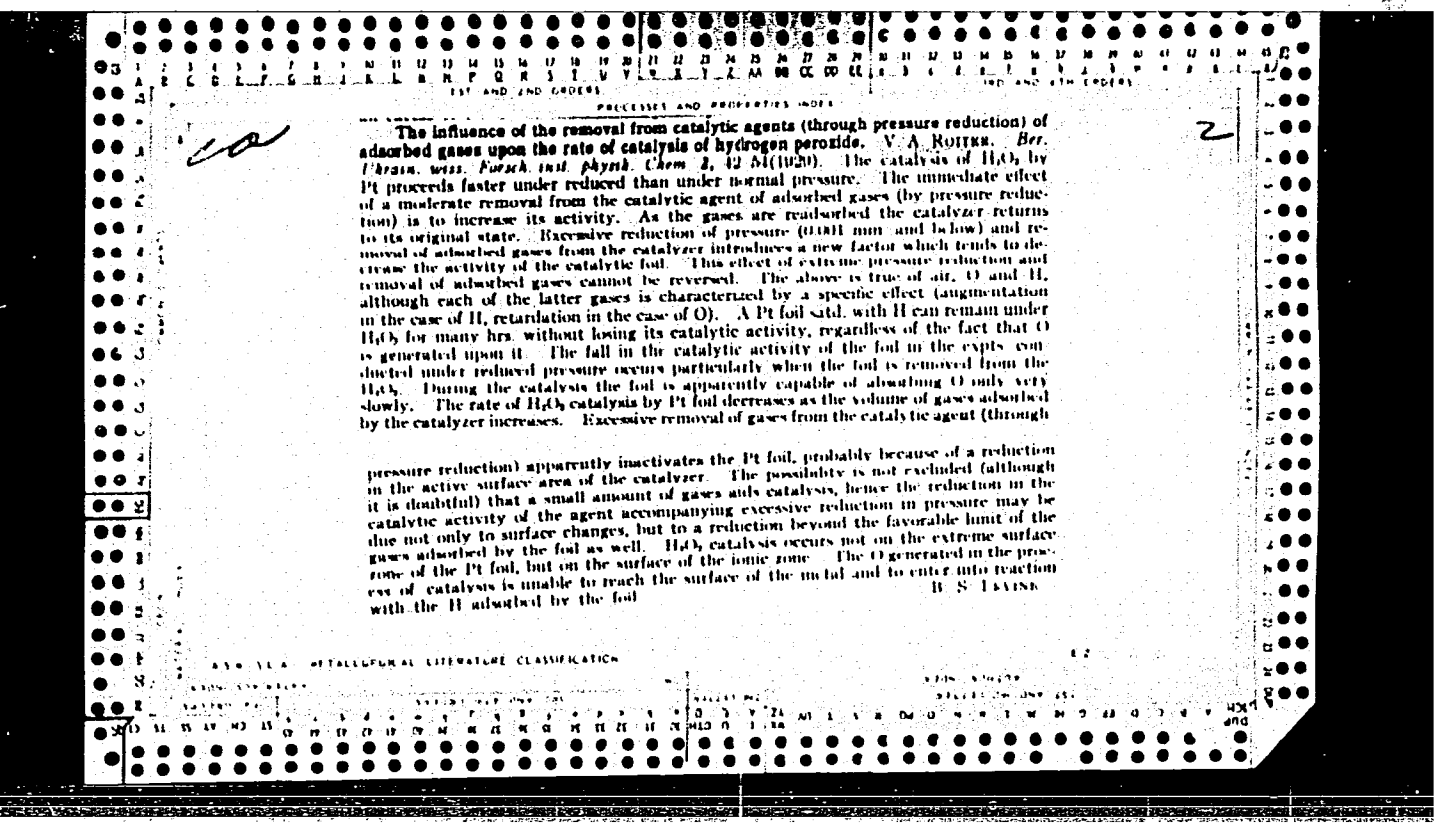

The influence of the removal from catalytic agents (through pressure reduction) of adsorbed gases upon the rate of catalysis of hydrogen peroxide. V. A. Roiter. *Ber. Ukrain. wiss. Forsch. inst. physik. Chem.* **2**, 42-54(1926). The catalysis of H_2O_2 by Pt proceeds faster under reduced than under normal pressure. The immediate effect of a moderate removal from the catalytic agent of adsorbed gases (by pressure reduction) is to increase its activity. As the gases are readsorbed the catalyzer returns to its original state. Excessive reduction of pressure (0.001 mm and below) and removal of adsorbed gases from the catalyzer introduces a new factor which tends to decrease the activity of the catalytic foil. This effect of extreme pressure reduction and removal of adsorbed gases cannot be reversed. The above is true of air, O and H, although each of the latter gases is characterized by a specific effect (augmentation in the case of H, retardation in the case of O). A Pt foil catd. with H can remain under H_2O_2 for many hrs. without losing its catalytic activity, regardless of the fact that O is generated upon it. The fall in the catalytic activity of the foil in the expts. conducted under reduced pressure occurs particularly when the foil is removed from the H_2O_2. During the catalysis the foil is apparently capable of absorbing O only very slowly. The rate of H_2O_2 catalysis by Pt foil decreases as the volume of gases adsorbed by the catalyzer increases. Excessive removal of gases from the catalytic agent (through pressure reduction) apparently inactivates the Pt foil, probably because of a reduction in the active surface area of the catalyzer. The possibility is not excluded (although it is doubtful) that a small amount of gases aids catalysis, hence the reduction in the catalytic activity of the agent accompanying excessive reduction in pressure may be due not only to surface changes, but to a reduction beyond the favorable limit of the gases adsorbed by the foil as well. H_2O_2 catalysis occurs not on the extreme surface zone of the Pt foil, but on the surface of the ionic zone. The O generated in the process of catalysis is unable to reach the surface of the metal and to enter into reaction with the H absorbed by the foil

B. S. Ivanis

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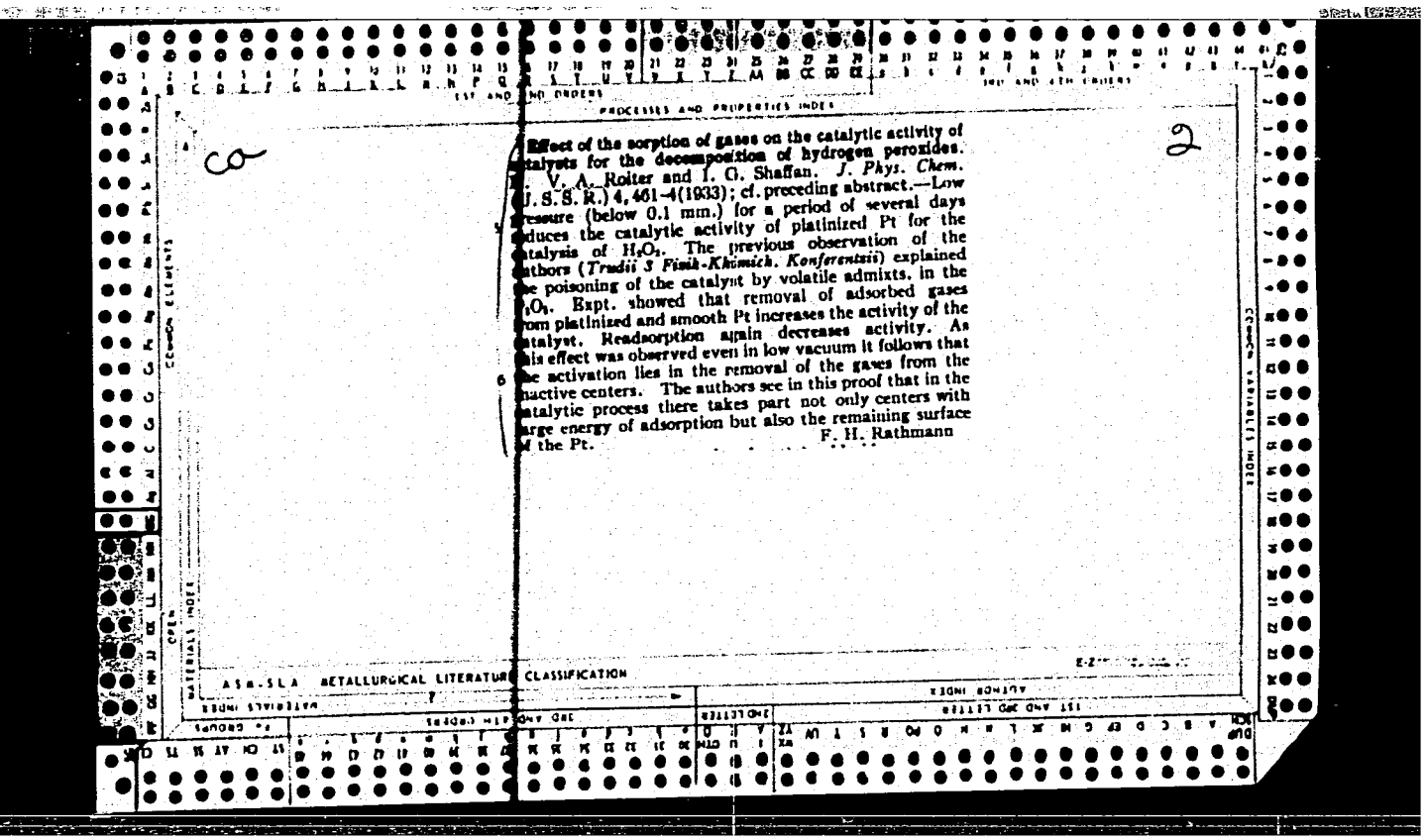

PROCESSES AND PROPERTIES INDEX

Effect of the sorption of gases on the catalytic activity of catalysts for the decomposition of hydrogen peroxides. V. A. Roiter and I. G. Shaffan. *J. Phys. Chem.* (U.S.S.R.) 4, 461-4(1933); cf. preceding abstract.—Low pressure (below 0.1 mm.) for a period of several days reduces the catalytic activity of platinized Pt for the catalysis of H_2O_2. The previous observation of the authors (*Trudii 3 Vsesoyuz. Konferentsii*) explained the poisoning of the catalyst by volatile admixts. in the H_2O_2. Expt. showed that removal of adsorbed gases from platinized and smooth Pt increases the activity of the catalyst. Readsorption again decreases activity. As this effect was observed even in low vacuum it follows that the activation lies in the removal of the gases from the inactive centers. The authors see in this proof that in the catalytic process there takes part not only centers with large energy of adsorption but also the remaining surface of the Pt.

F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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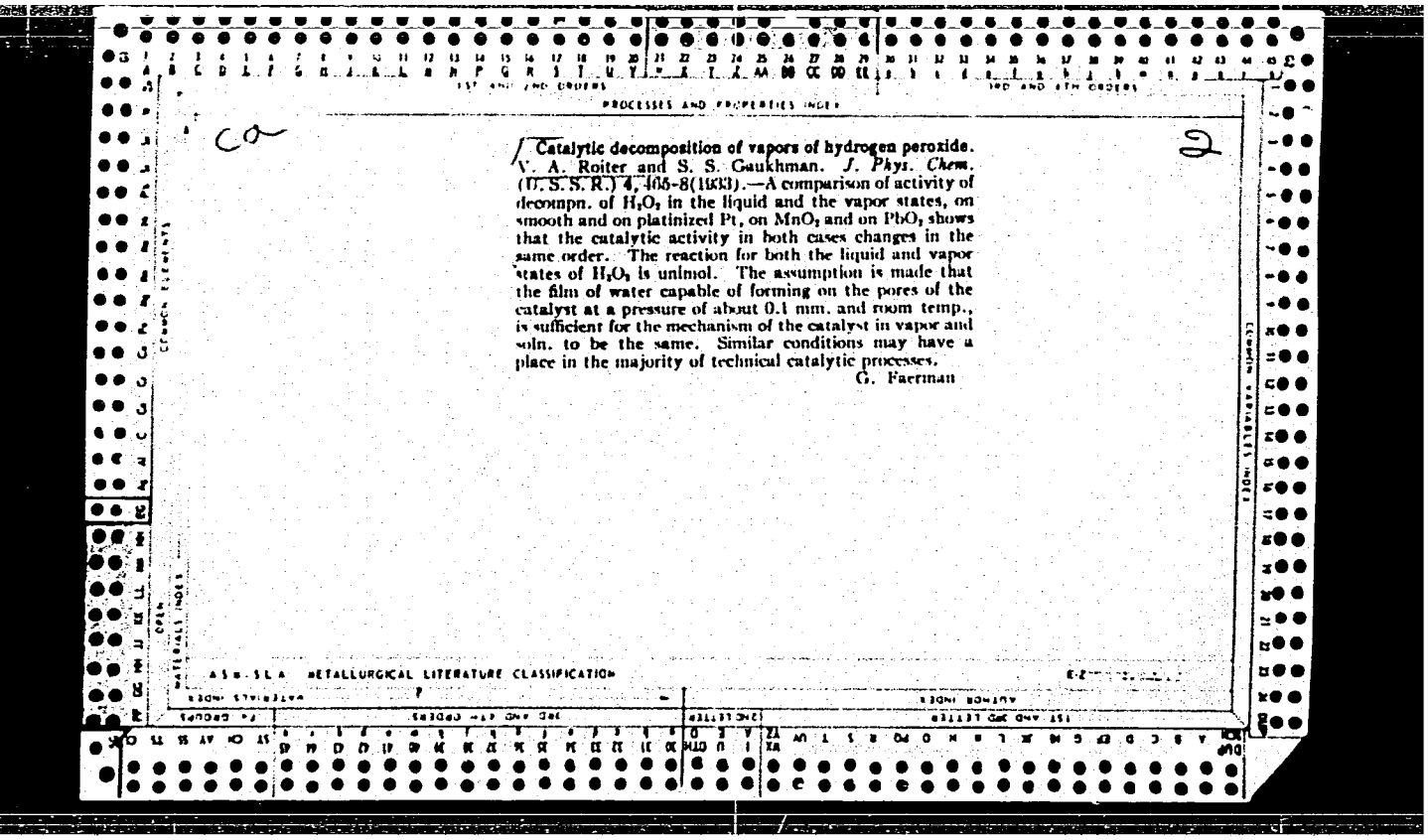

PROCESSES AND PROPERTIES INDEX

Catalytic decomposition of vapors of hydrogen peroxide. V. A. Roiter and S. S. Gaukhman. *J. Phys. Chem.* (U. S. S. R.) 4, 405-8(1933).—A comparison of activity of decompn. of H_2O_2 in the liquid and the vapor states, on smooth and on platinized Pt, on MnO_2 and on PbO_2 shows that the catalytic activity in both cases changes in the same order. The reaction for both the liquid and vapor states of H_2O_2 is unimol. The assumption is made that the film of water capable of forming on the pores of the catalyst at a pressure of about 0.1 mm. and room temp., is sufficient for the mechanism of the catalyst in vapor and soln. to be the same. Similar conditions may have a place in the majority of technical catalytic processes.

G. Faerman

A S M - S L A METALLURGICAL LITERATURE CLASSIFICATION

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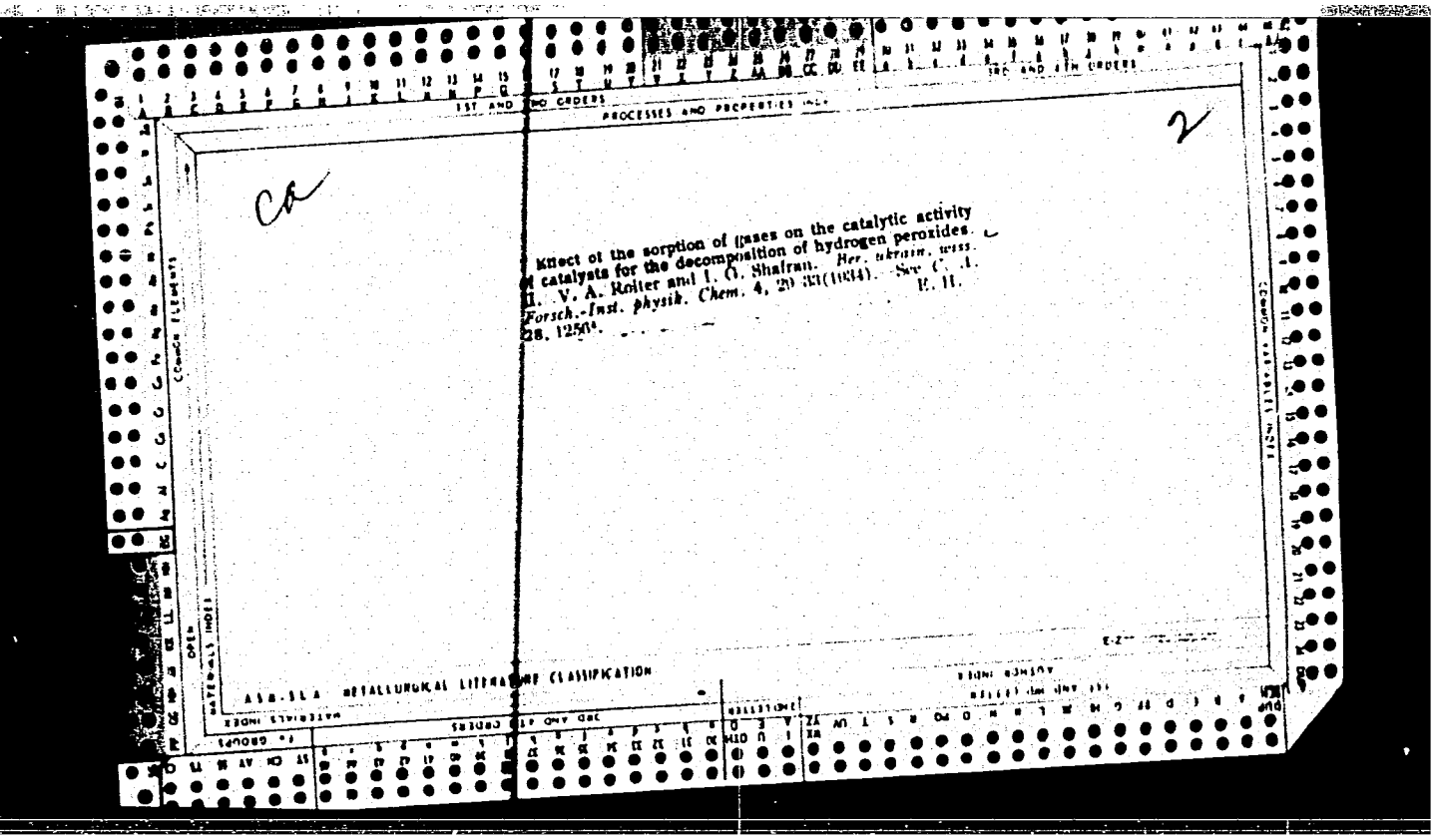

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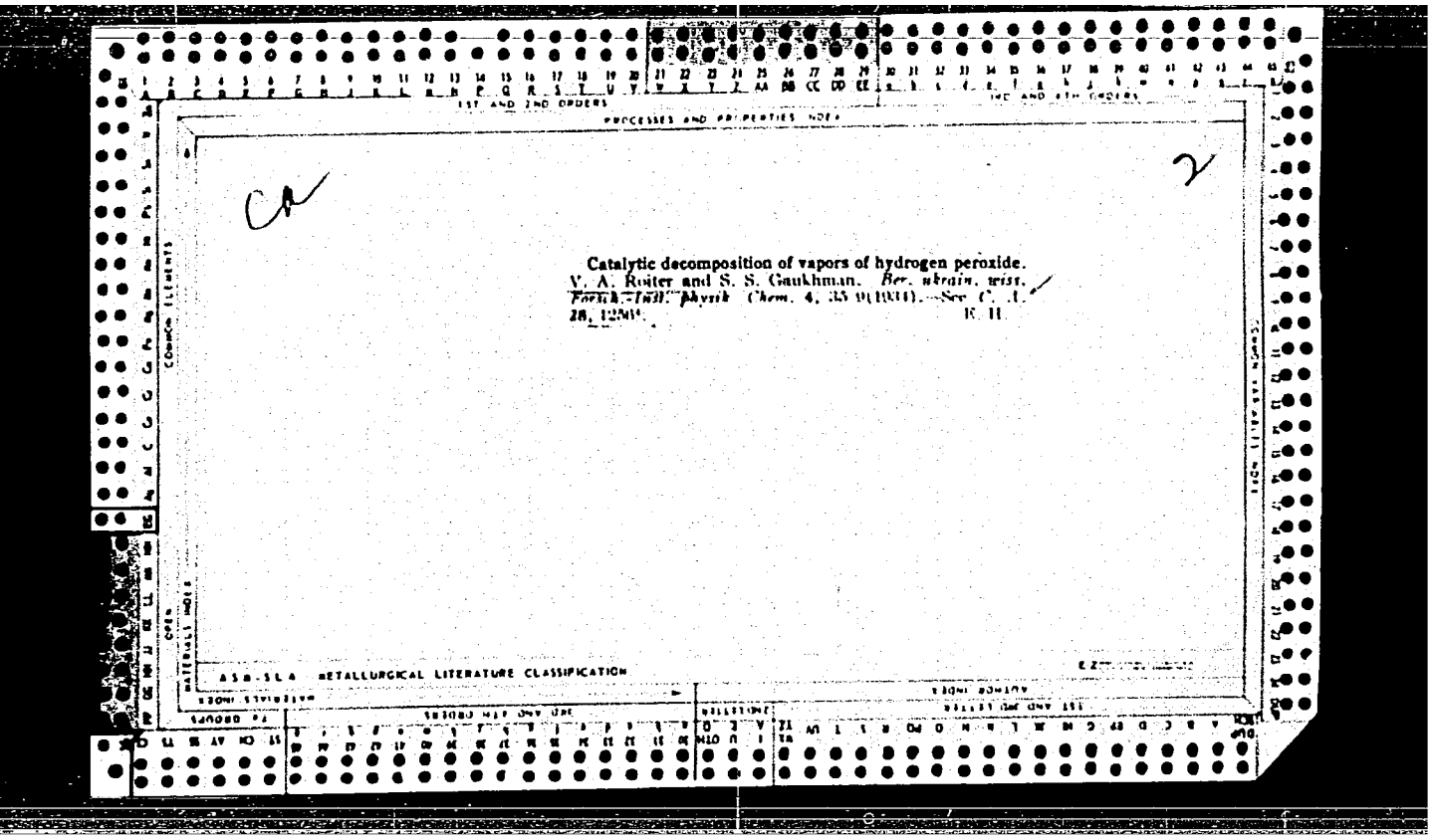

Catalytic decomposition of vapors of hydrogen peroxide.
V. A. Roiter and S. S. Gaukhman. *Ber. ukrain. inst. fiziol. khimii* (*Trans. Ukrainian Physik. Chem.*) 4, 35-9(1934).—See C. A. 28, 1294[illegible]. R. H.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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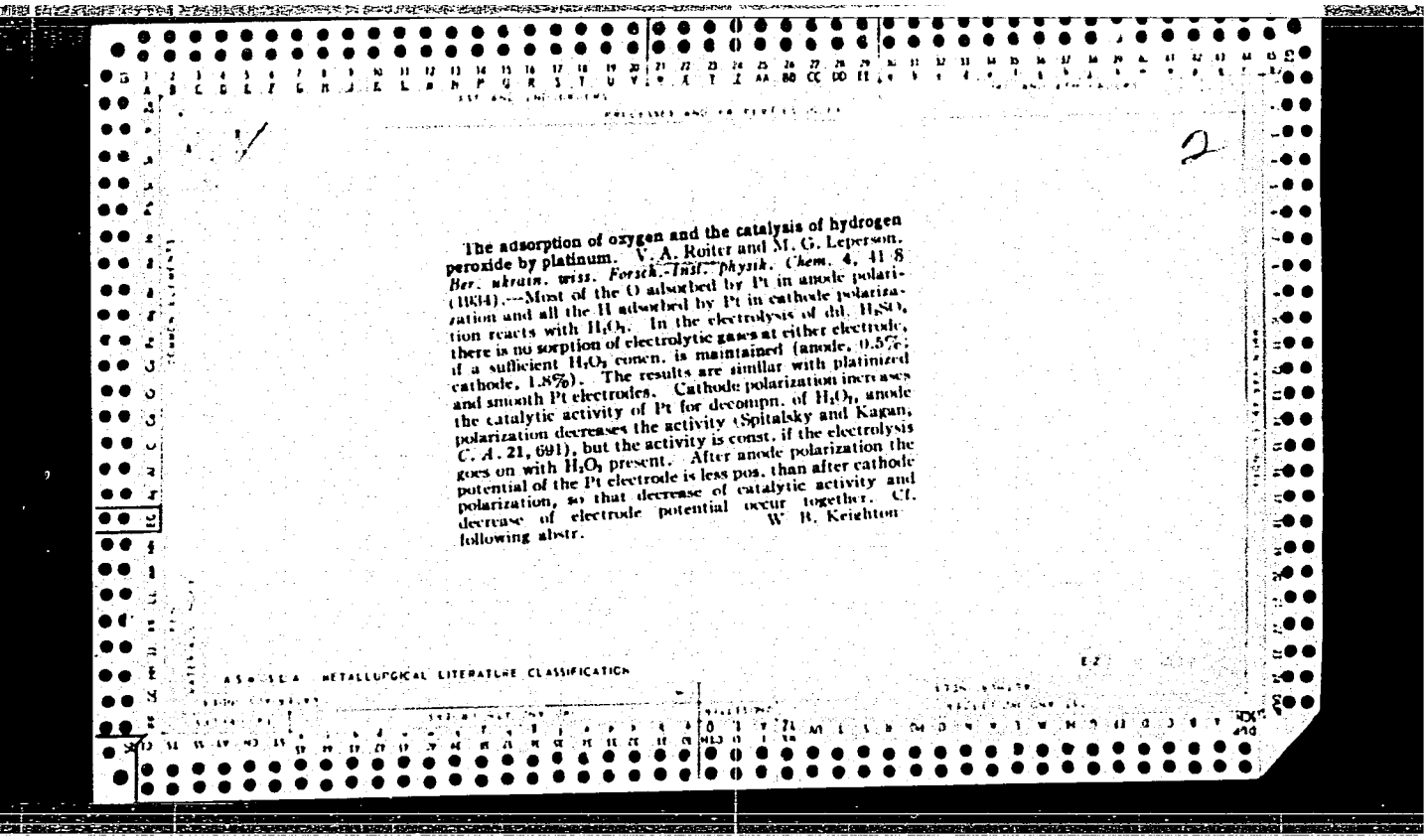

The adsorption of oxygen and the catalysis of hydrogen peroxide by platinum. V. A. Roiter and M. G. Leperson. *Ber. ukrain. wiss. Forsch.-Inst. physik. Chem.* 4, 41-8 (1934).—Most of the O adsorbed by Pt in anode polarization and all the H adsorbed by Pt in cathode polarization reacts with H_2O_2. In the electrolysis of dil. H_2SO_4, there is no sorption of electrolytic gases at either electrode, if a sufficient H_2O_2 concn. is maintained (anode, 0.5%; cathode, 1.8%). The results are similar with platinized and smooth Pt electrodes. Cathode polarization increases the catalytic activity of Pt for decompn. of H_2O_2, anode polarization decreases the activity (Spitalsky and Kagan, *C. A.* 21, 691), but the activity is const. if the electrolysis goes on with H_2O_2 present. After anode polarization the potential of the Pt electrode is less pos. than after cathode polarization, so that decrease of catalytic activity and decrease of electrode potential occur together. Cf. following abstr. W. B. Keighton

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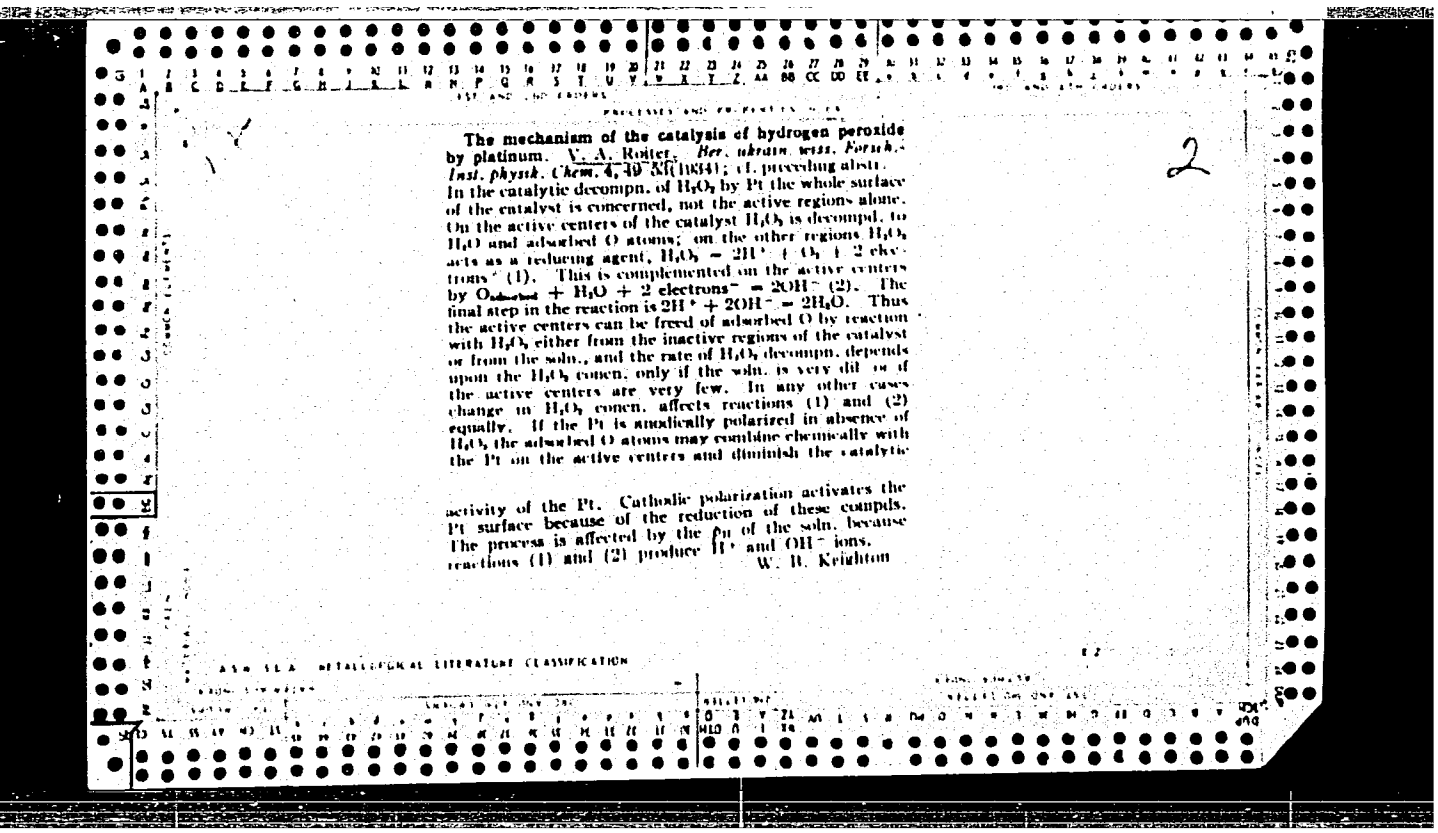

The mechanism of the catalysis of hydrogen peroxide by platinum. V. A. Roiter. *Ber. ukrain. wiss. Forsch.-Inst. physik. Chem.* 4, 49–81 (1934); cf. preceding abstr. In the catalytic decompn. of H_2O_2 by Pt the whole surface of the catalyst is concerned, not the active regions alone. On the active centers of the catalyst H_2O_2 is decompd. to H_2O and adsorbed O atoms; on the other regions H_2O_2 acts as a reducing agent, $H_2O_2 = 2H^+ + O_2 + 2$ electrons$^-$ (1). This is complemented on the active centers by $O_{adsorbed} + H_2O + 2$ electrons$^- = 2OH^-$ (2). The final step in the reaction is $2H^+ + 2OH^- = 2H_2O$. Thus the active centers can be freed of adsorbed O by reaction with H_2O_2 either from the inactive regions of the catalyst or from the soln., and the rate of H_2O_2 decompn. depends upon the H_2O_2 concn. only if the soln. is very dil. so if the active centers are very few. In any other cases change in H_2O_2 concn. affects reactions (1) and (2) equally. If the Pt is anodically polarized in absence of H_2O_2, the adsorbed O atoms may combine chemically with the Pt on the active centers and diminish the catalytic activity of the Pt. Cathodic polarization activates the Pt surface because of the reduction of these compds. The process is affected by the p_H of the soln. because reactions (1) and (2) produce H^+ and OH^- ions.

W. B. Krighton

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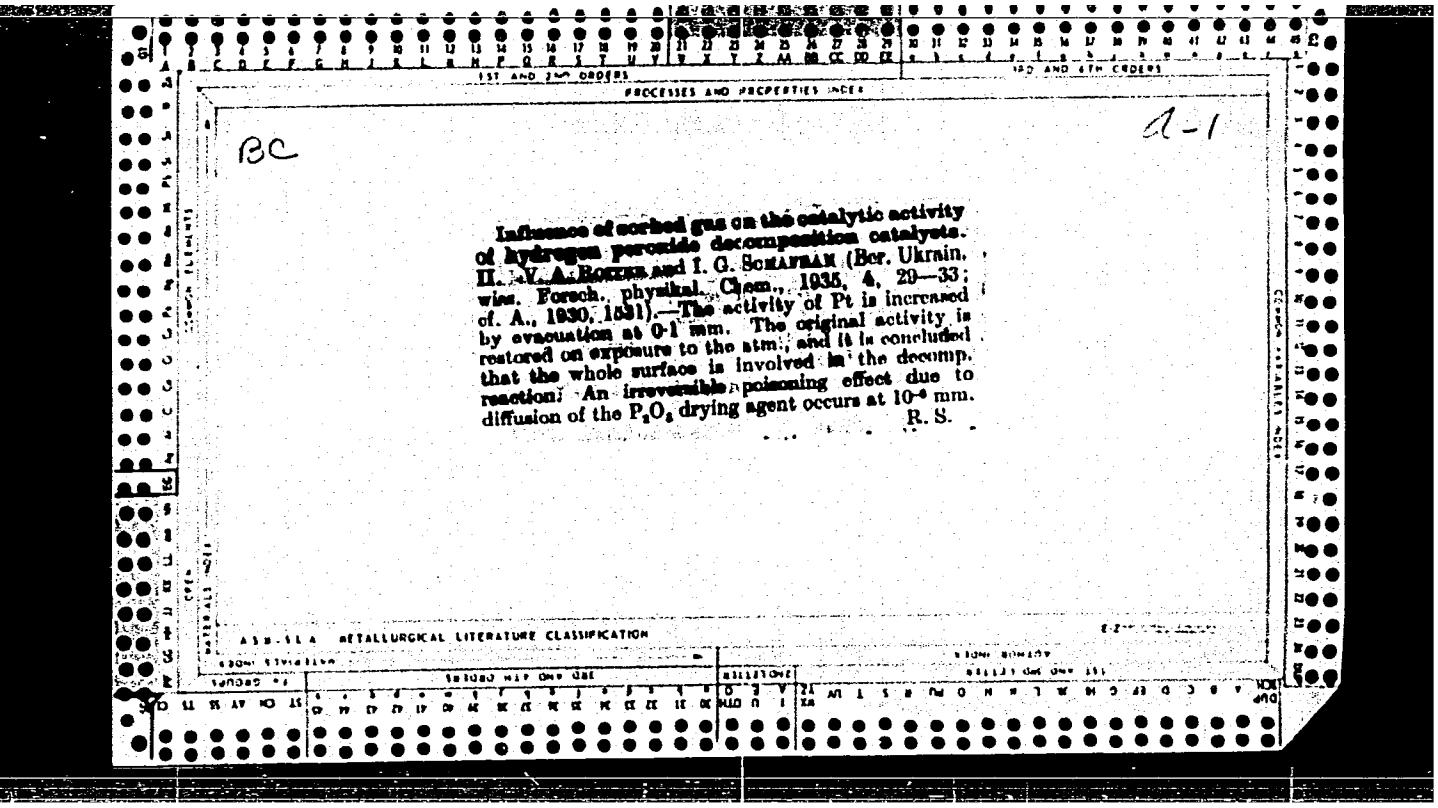

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

BC

A-1

Influence of sorbed gas on the catalytic activity of hydrogen peroxide decomposition catalysts. II. V. A. Roiter and I. G. Schapiran (Ber. Ukrain. wiss. Forsch. physikal. Chem., 1935, 4, 29—33; cf. A., 1930, 1531).—The activity of Pt is increased by evacuation at 0·1 mm. The original activity is restored on exposure to the atm.; and it is concluded that the whole surface is involved in the decomp. reaction. An irreversible poisoning effect due to diffusion of the P_2O_5 drying agent occurs at 10^{-6} mm.

R. S.

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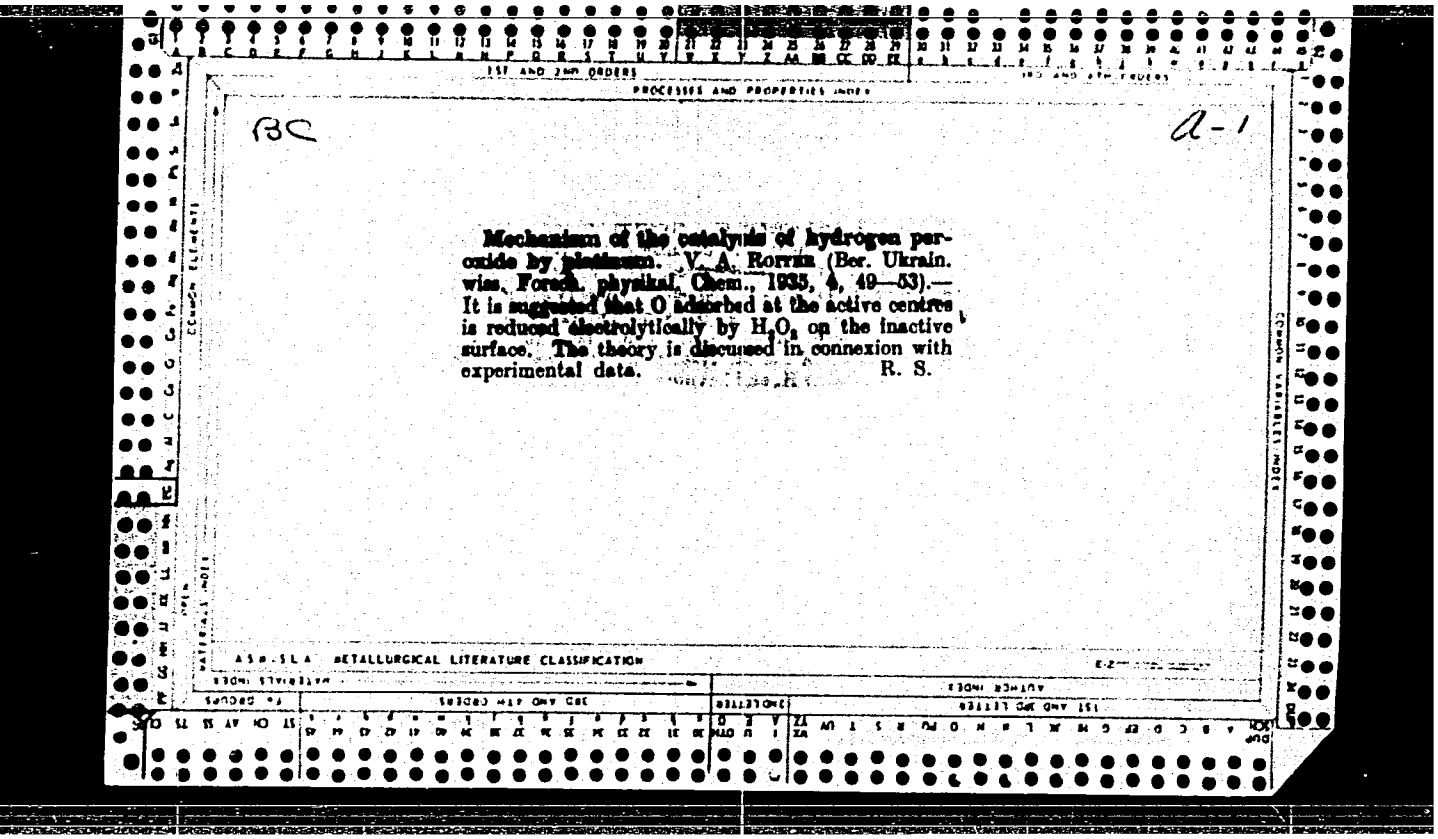

BC

a-1

Mechanism of the catalysis of hydrogen peroxide by platinum. V. A. Rovnin (Ber. Ukrain. wiss. Forsch. physikal. Chem., 1935, 4, 49—53).—It is suggested that O adsorbed at the active centres is reduced electrolytically by H_2O_2 on the inactive surface. The theory is discussed in connexion with experimental data. R. S.

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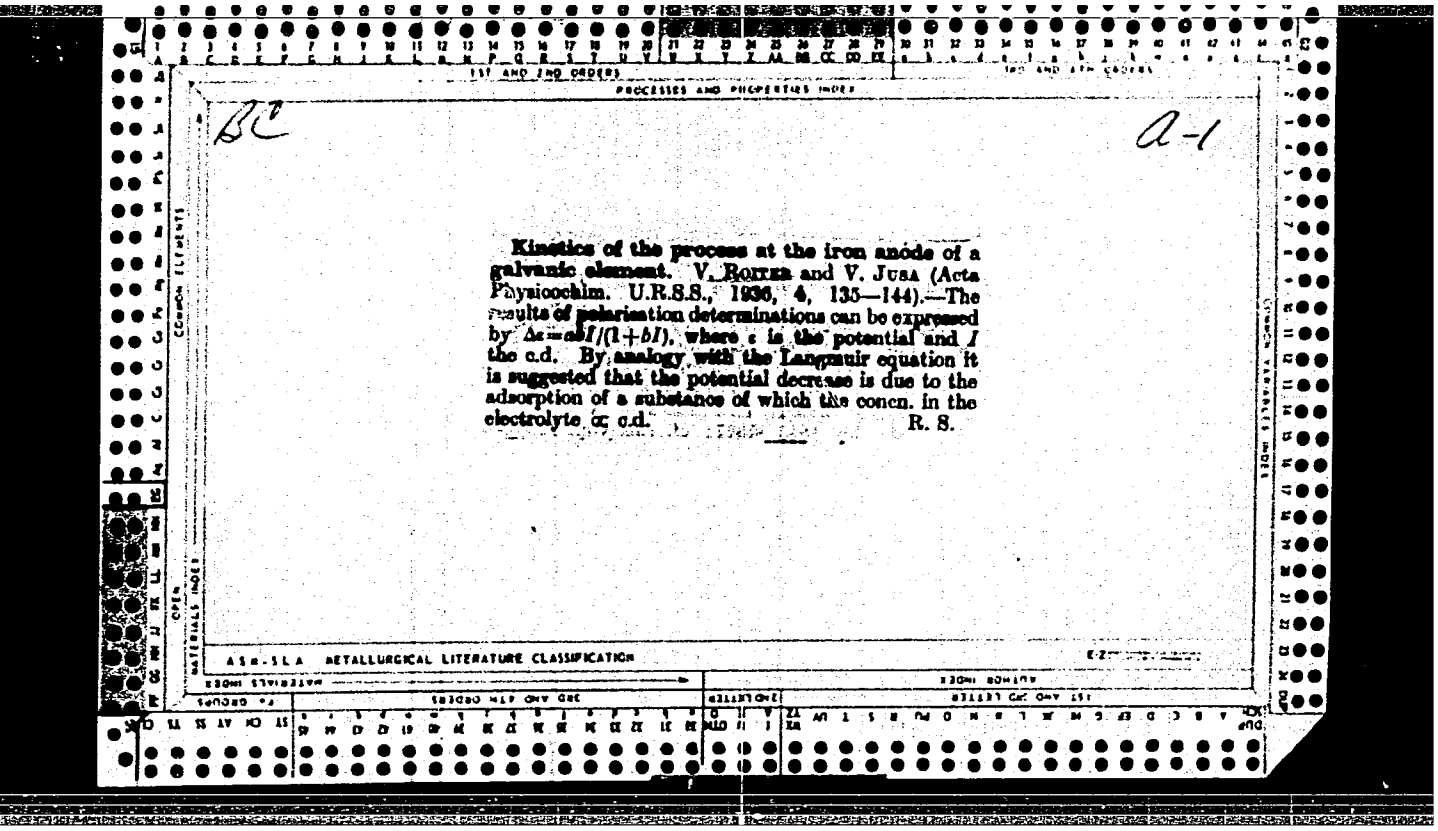

BC

a-1

Kinetics of the process at the iron anode of a galvanic element. V. Rotrta and V. Jusa (Acta Physicochim. U.R.S.S., 1936, 4, 135—144).—The results of polarisation determinations can be expressed by $\Delta\epsilon = aI/(1+bI)$, where ϵ is the potential and I the c.d. By analogy with the Langmuir equation it is suggested that the potential decrease is due to the adsorption of a substance of which the concn. in the electrolyte $\propto$ c.d. R. S.

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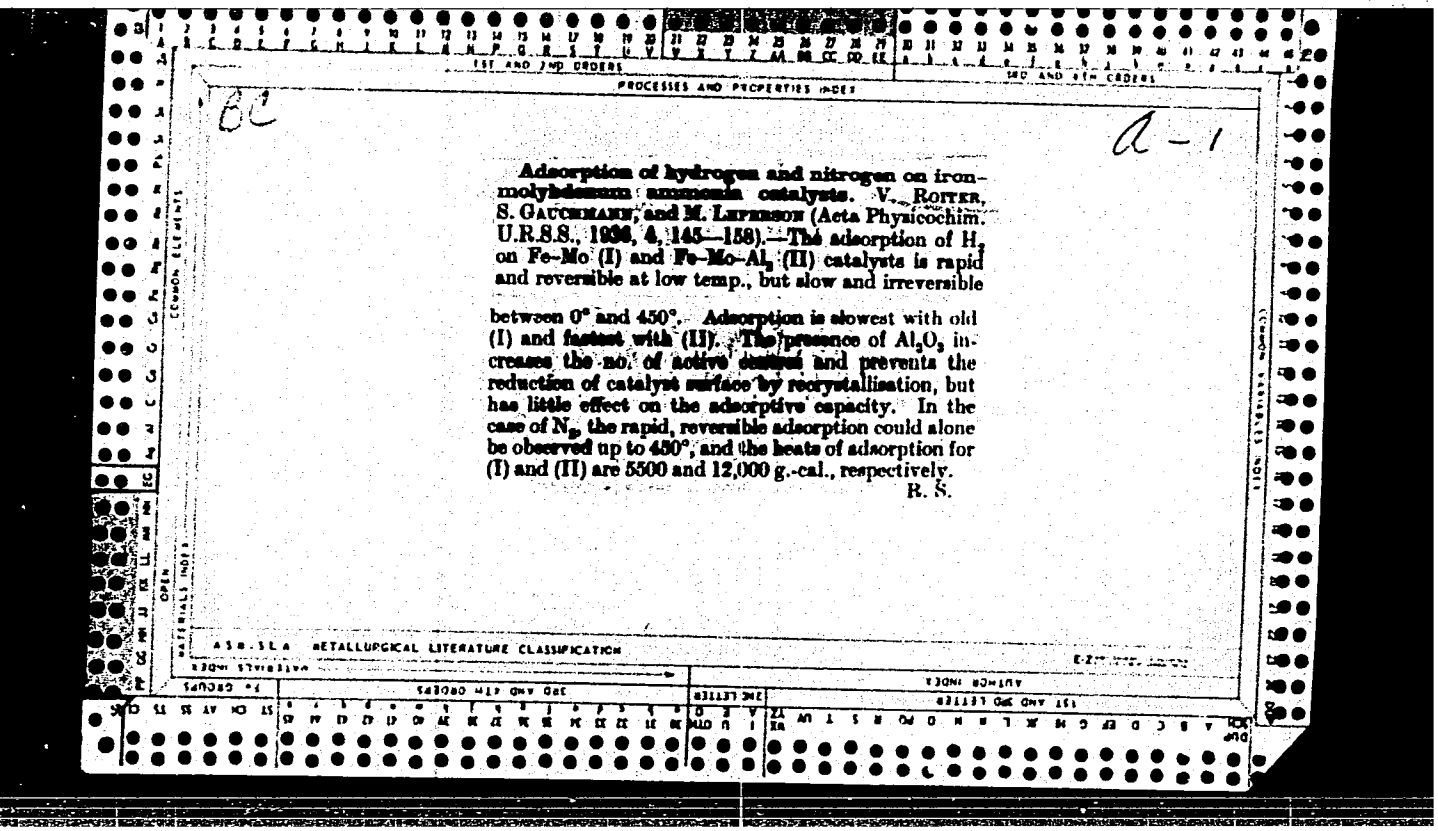

PROCESSES AND PROPERTIES INDEX

BC

a-1

Adsorption of hydrogen and nitrogen on iron-molybdenum-ammonia catalysts. V. ROITER, S. GAUCHMANN, and M. LEPINSON (Acta Physicochim. U.R.S.S., 1936, 4, 145—158).—The adsorption of H_2 on Fe–Mo (I) and Fe–Mo–Al_2O_3 (II) catalysts is rapid and reversible at low temp., but slow and irreversible between 0° and 450°. Adsorption is slowest with old (I) and fastest with (II). The presence of Al_2O_3 increases the no. of active centres and prevents the reduction of catalyst surface by recrystallisation, but has little effect on the adsorptive capacity. In the case of N_2, the rapid, reversible adsorption could alone be observed up to 450°, and the heats of adsorption for (I) and (II) are 5500 and 12,000 g.-cal., respectively.

R. S.

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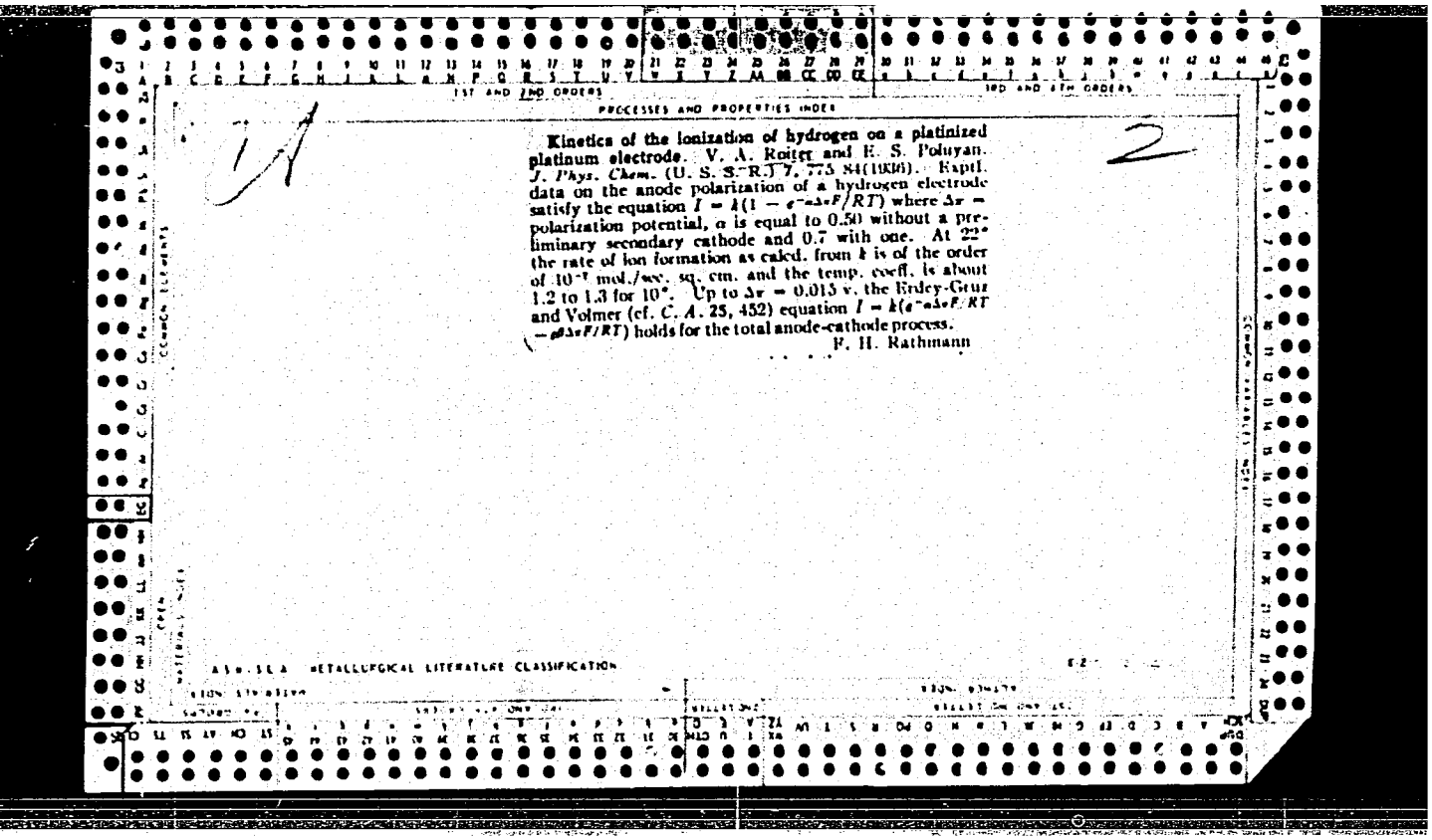

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Kinetics of the ionization of hydrogen on a platinized platinum electrode. V. A. Roiter and E. S. Polnyan. *J. Phys. Chem.* (U. S. S. R.) 7, 775-84(1936). Exptl. data on the anode polarization of a hydrogen electrode satisfy the equation $I = k(1 - e^{-\alpha\Delta\pi F/RT})$ where $\Delta\pi$ = polarization potential, α is equal to 0.50 without a preliminary secondary cathode and 0.7 with one. At 22° the rate of ion formation as calcd. from k is of the order of 10^{-7} mol./sec. sq. cm. and the temp. coeff. is about 1.2 to 1.3 for 10°. Up to $\Delta\pi = 0.015$ v. the Erdey-Gruz and Volmer (cf. *C. A.* 25, 452) equation $I = k(e^{-\alpha\Delta\pi F/RT} - e^{\beta\Delta\pi F/RT})$ holds for the total anode-cathode process.

F. H. Rathmann

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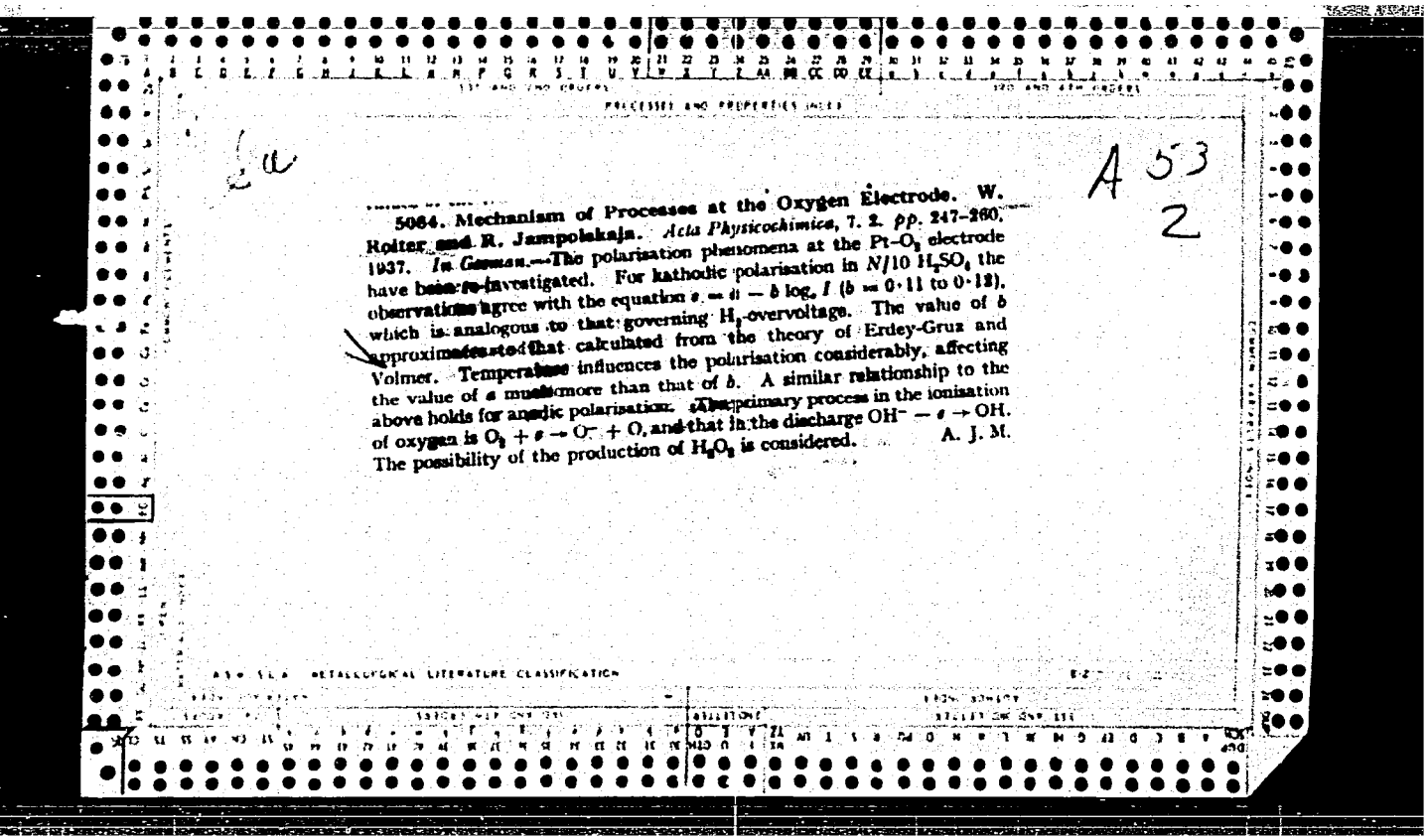

5064. **Mechanism of Processes at the Oxygen Electrode.** W. Rolter and R. Jampolskaja. *Acta Physicochimica*, 7. 2. *pp.* 247–260. 1937. *In German.*—The polarisation phenomena at the Pt–O_2 electrode have been investigated. For kathodic polarisation in $N/10$ H_2SO_4 the observations agree with the equation $\eta = a - b \log_e I$ ($b = 0{\cdot}11$ to $0{\cdot}12$), which is analogous to that governing H_2-overvoltage. The value of b approximates to that calculated from the theory of Erdey-Gruz and Volmer. Temperature influences the polarisation considerably, affecting the value of a much more than that of b. A similar relationship to the above holds for anodic polarisation. The primary process in the ionisation of oxygen is $O_2 + e \rightarrow O_2^- + O$, and that in the discharge $OH^- - e \rightarrow OH$. The possibility of the production of H_2O_2 is considered. A. J. M.

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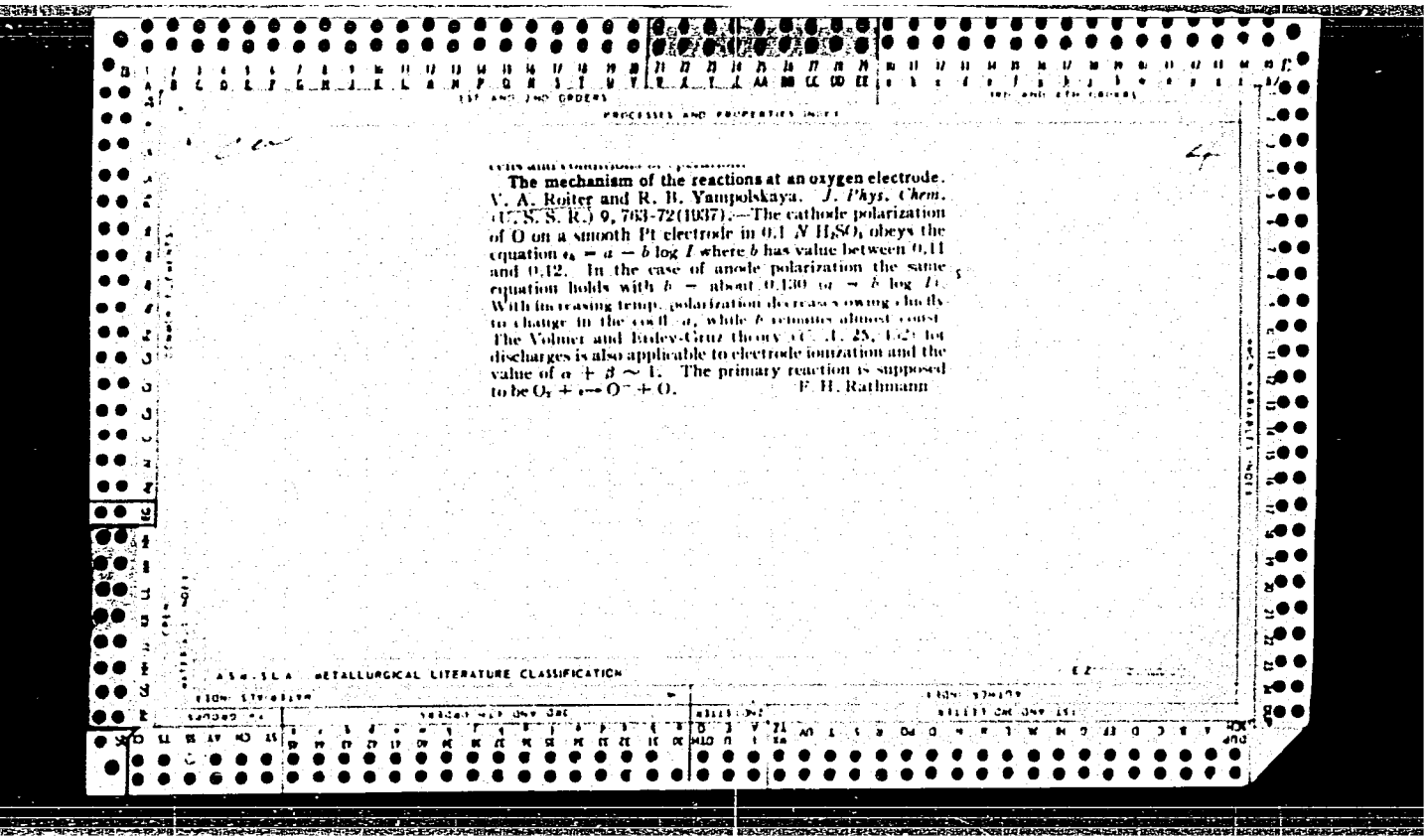

The mechanism of the reactions at an oxygen electrode. V. A. Roiter and R. B. Yampolskaya. *J. Phys. Chem.* (U.S.S.R.) 9, 763-72(1937).—The cathode polarization of O on a smooth Pt electrode in 0.1 *N* H_2SO_4 obeys the equation $e_k = a - b \log I$ where b has value between 0.11 and 0.12. In the case of anode polarization the same equation holds with b = about 0.130 or $= b \log I$. With increasing temp. polarization decreases owing chiefly to change in the coeff. a, while b remains almost const. The Volmer and Erdey-Gruz theory (*C. A.* 25, 1625) for discharges is also applicable to electrode ionization and the value of $\alpha + \beta \sim 1$. The primary reaction is supposed to be $O_2 + e \rightarrow O^- + O$. F. H. Rathmann

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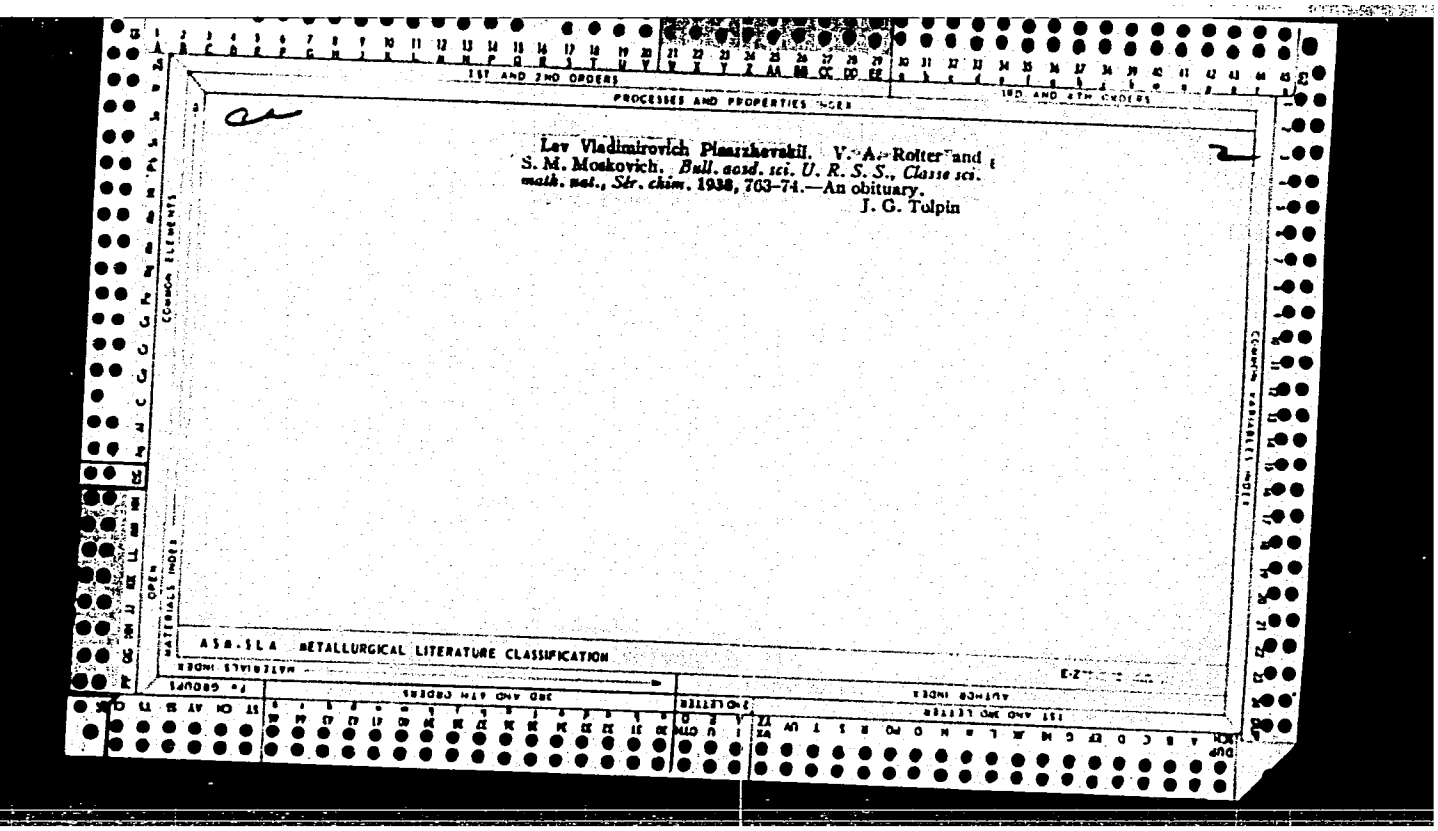

Lev Vladimirovich Pisarzhevskii. V. A. Rotter and S. M. Moskovich. *Bull. acad. sci. U. R. S. S., Classe sci. math. nat., Sér. chim.* 1938, 763–74.—An obituary.
J. G. Tulpin

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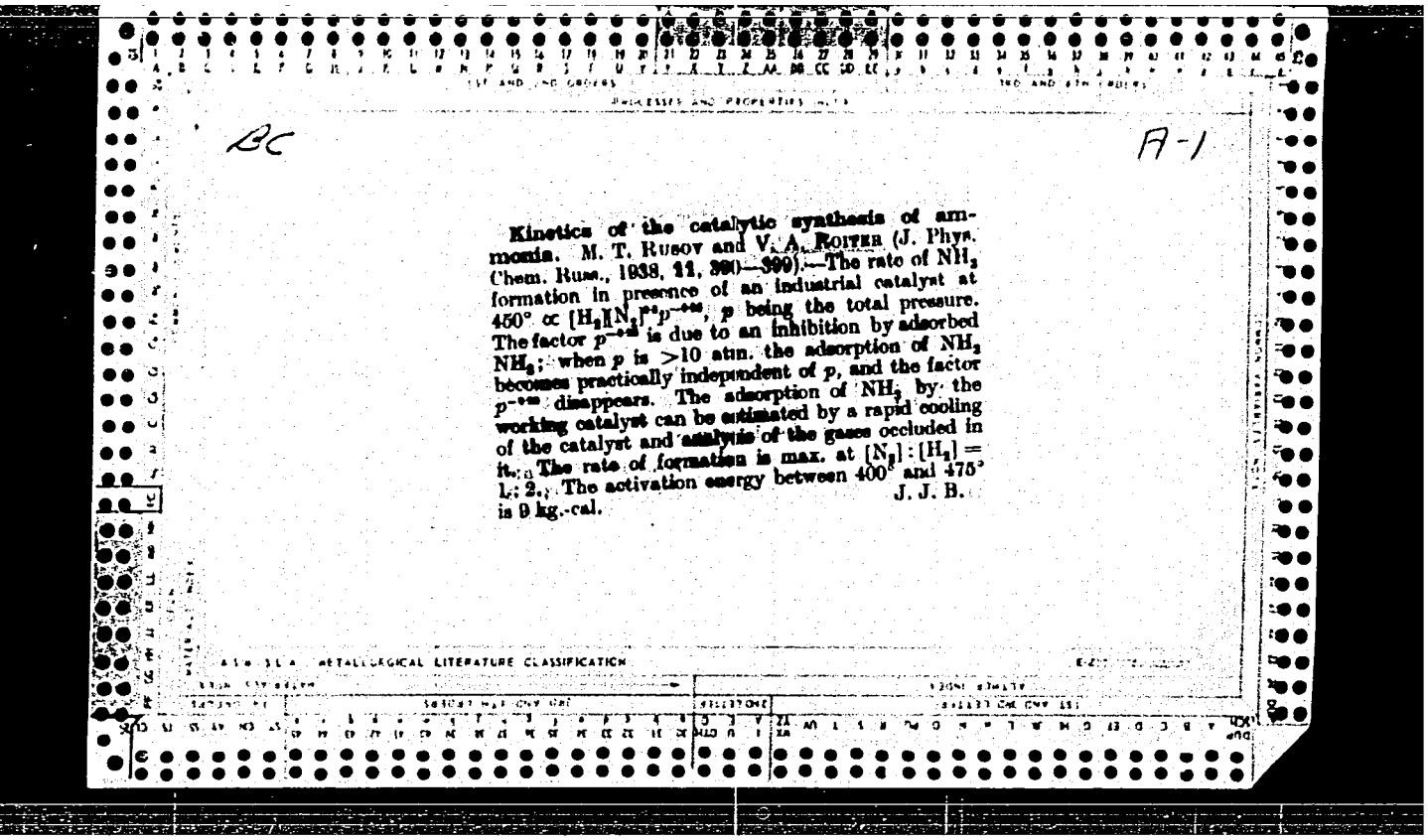

BC

A-1

Kinetics of the catalytic synthesis of ammonia. M. T. Rusov and V. A. Roiter (J. Phys. Chem. Russ., 1938, **11**, 390—399).—The rate of NH_3 formation in presence of an industrial catalyst at 450° $\propto [H_2][N_2]^{a}p^{-a-b}$, p being the total pressure. The factor p^{-a-b} is due to an inhibition by adsorbed NH_3; when p is >10 atm. the adsorption of NH_3 becomes practically independent of p, and the factor p^{-a-b} disappears. The adsorption of NH_3 by the working catalyst can be estimated by a rapid cooling of the catalyst and analysis of the gases occluded in it. The rate of formation is max. at $[N_2]:[H_2] = 1:2$. The activation energy between 400° and 475° is 9 kg.-cal.

J. J. B.

A 1 a 3 L a METALLURGICAL LITERATURE CLASSIFICATION

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